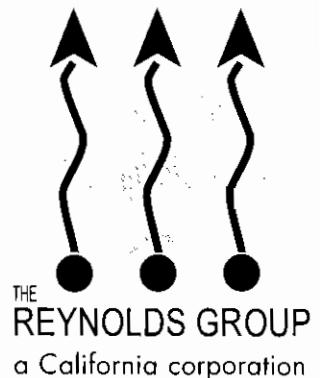


December 15, 2010  
(TRG No. 7115)

Mr. Luis Rodriguez

**ORANGE COUNTY HEALTH CARE AGENCY  
ENVIRONMENTAL HEALTH  
1241 E. Dyer Road Suite 120  
Santa Ana, CA 92705-5611**



**SITE: FULLERTON BUSINESS PARK NORTH  
(FORMER OCHCA #94IC29)  
1551 EAST ORANGETHORPE AVENUE  
FULLERTON, CALIFORNIA**

**SUBJECT: SOIL REMEDIATION STATUS SUMMARY**

Dear Mr. McFadden:

The Reynolds Group (TRG) is pleased to provide you with this *Soil Remediation Status Summary* for soil vapor extraction (SVE) remediation of residual chlorinated hydrocarbons, primarily tetrachloroethene (PCE) and trichloroethene (TCE), from subsurface soils at the subject Site (see **Figure 1 – Site Location Map**).

RECEIVED HCA

**BACKGROUND**

DEC 17 2010

2008

ENVIRONMENTAL HLTH

SVE was initiated at the Site in January 2008 based on subsurface assessments performed in 2007 indicating a reduction in PCE and TCE shallow soil concentrations was required to mitigate human health risk at the Site. Concentrations up to 4,200 micrograms per liter (ug/L) of PCE and 711 ug/L of TCE were detected in shallow soils throughout the northern half of the property.

Since January 4, 2008, TRG has performed SVE from 14 double/triple-nested Vapor Extraction Wells (VEW) installed at the Site. During 2008, the SVE system consisted of a 300 cfm blower and two 1,000 lbs carbon filters in series. The wells were connected to the SVE system through an above-ground system manifold and the system operated by extracting from a different series

of wells on a rotational basis, focusing on “hot zones” to optimize extraction and maintain a good vacuum of influence. After 11 months of soil vapor extraction at the Site, soil vapor PCE and TCE concentrations declined significantly at most locations beneath the Site building to asymptotic conditions. During the 11 month period in 2008, 49.5 lbs of PCE and 6.6 lbs of TCE were removed and treated.

#### 2009

In March, 2009, TRG performed verification sampling at the subject Site to verify that the 11 months of SVE at the Site had successfully removed the PCE and TCE in the subsurface soils to levels low enough for low risk closure consideration. Results of the verification sampling indicated that the SVE remedial efforts reduced PCE and TCE vapor concentrations notably in the shallow soils throughout most of the Site and, to a lesser degree, in soils at the northeastern end of the building, near the adjacent Former Johnson Controls Battery property (Johnson Controls). Johnson Controls is known to have released chlorinated compounds (including PCE and TCE) into the subsurface.

The significant reduction in PCE and TCE in shallow soils suggested that the Site building areas had remediated to low enough concentrations for commercial/industrial use low risk closure consideration and, thus, TRG requested that Orange County Health Care Agency (OCHCA) evaluate results of this investigation for indoor human health risk analysis and case closure.

In TRG’s meeting with Luis Lodriguez of OCHCA on May 11, 2009, Mr. Lodriguez directed additional SVE remediation of shallow soils in the northeastern end of the building (remaining area of concern), since PCE concentrations in that area remained too high for low risk closure using OCHCA criteria (PCE up to 767 ug/L and TCE up to 107 ug/L). Mr. Lodriguez stated that the remaining areas appeared acceptable for low risk closure.

On May 13, 2009, with Client approval, TRG restarted the SVE system, targeting the remaining area of concern by extracting from wells located in that area (nested well VEW3 at 5, 15, and 25 ft bgs). The SVE system operated through October 2009, and a second verification sampling event was proposed and approved by Mr. Lodriguez. The second verification sampling event was performed on November 24, 2009, and results were submitted in a report to Mr. Lodriguez. In an emailed OCHCA response on November 30, 2009, Mr. Lodriguez reported the results of his human health risk evaluation of the second verification sampling and concluded that the residual shallow soil vapor results in the subslab locations (SV36B and SV37B) remained higher than the OCHCA acceptable risk and hazard levels.

#### 2010

In January 2010, to target the residual PCE area TRG installed two shallow 5 ft vapor extraction wells (VEW17-5 and VEW18-5) in the vicinity of sampling location SV36B and SV37B, and resumed SVE remediation extracting from the newly installed wells until March 2010. In March 2010, TRG notified Mr. Lodriguez to perform a third round of verification sampling at the Site as progress of the soil vapor samples collected from the target area were favorable (all “non-detect”). In response Mr. Lodriguez requested that the third verification sampling event be scheduled at the end of April 2010, and that it include Site-wide (historical remediation area) verification sampling.

On April 27 and 28, 2010, TRG performed the third SVE remediation verification sampling in the presence of Mr. Lodriguez. Evaluation of the soil vapor results showed that PCE concentrations in the northern building area from the subslab to 25 ft bgs were still above OCHCA’s health risk threshold. As such, in July 2010, TRG resumed SVE remediation on the northern building area extracting in the area of “high” residual PCE (wells VEW3, VEW17, VEW18).

## REMEDIATION STATUS

In the first week of July 2010, TRG restarted the SVE system. Other than occasional down-time for general maintenance, TRG has operated the system continuously since its restart in July 2010. A brief summary of SVE Remediation detail is outlined below:

Date of SVE System Start:	January 4, 2008
Date of SVE System Restart:	July 7, 2010
Period Covered:	July 7, 2010 through November 11, 2010
Total System Running Time Since Start-Up:	14,572.2 hrs
System Running Time This Period:	2,723.4 hrs

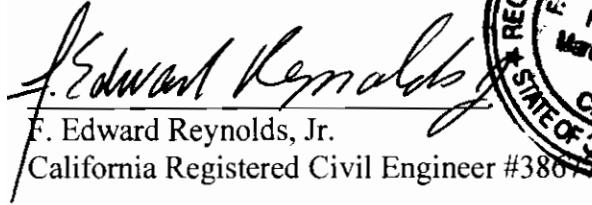
Event	Date	Months of Operation	Maximum Concentrations (ug/L)	
			PCE	TCE
Assessment	2007	N/A	4,200	711
SVE Remediation I	Jan to Nov 2008	11	208	34
Verification Sampling I	Mar 2009	N/A	767	107
SVE Remediation II	May to Oct 2009	6	53	5.4
Verification Sampling II	Nov 2009	N/A	17.1	19.9
SVE Remediation III	Jan to Mar 2010	3	--	--
Verification Sampling III	Apr 2010	N/A	92.3	11.9
SVE Remediation IV	July to Nov 2010	4	24.9	2.44
<b>Total Months of Operation</b>		24		

SVE remediation in this latest period reduced soil vapor concentrations in the subsurface soils at the remaining area of concern by 73% PCE and 79.5% TCE since the April 2010 verification sampling event. Since remediation start-up originally in 2008, PCE has been reduced by 99.4% and TCE by 99.7%. PCE and TCE, however, may need to be further remediated to low enough concentrations for OCHCA low risk closure consideration. TRG will provide a status report to Mr. Lodriguez and recommend two additional months of remediation prior to performing another round of verification sampling for closure consideration.

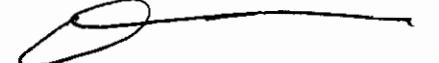
James McFadden, **GRUB & ELLIS**  
Fullerton Business Park Remediation Status  
December 15, 2010  
Page 5

Should you have any questions, please do not hesitate to contact our Project Manager for this Site, Alejandro Fuan, at (714) 920-9312 (cell) or via e-mail to [fuan@reynolds-group.com](mailto:fuan@reynolds-group.com).

Sincerely,  
**THE REYNOLDS GROUP**  
a California corporation by:

  
F. Edward Reynolds, Jr.  
California Registered Civil Engineer #38677



  
Alejandro Fuan  
Project Manager

Attachments:

- |                 |   |
|-----------------|---|
| Table 1 -       | Well Construction Detail Summary                  |
| Table 2 -       | Historical Summary of Soil Vapor Sample Results   |
| Table 3 -       | Summary of Operational Soil Vapor Sample Results  |
| Figure 1 -      | Site Location Map                                 |
| Figures 2A-2D - | SVE Remediation Progress at subslab to 5 ft bgs   |
| Figures 3A-3D - | SVE Remediation Progress at 15 ft bgs             |
| Figures 4A-4D - | SVE Remediation Progress at 25 ft bgs             |
| Figure 5 -      | Graph of Cumulative PCE and TCE Removed Over Time |
| Figure 6 -      | Graph of PCE and TCE Concentrations Over Time     |

cc: Mr. James McFadden, **GRUB & ELLIS**

**TABLE 1**  
**WELL CONSTRUCTION DETAIL SUMMARY**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**

<b>Well Location</b>	<b>Well ID</b>	<b>Well Type</b>	<b>Casing Diameter</b>	<b>Casing Length</b>	<b>Screen Interval</b>
VEW3	VEW3-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW3-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW3-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW4	VEW4-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW4-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW4-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW5	VEW5-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW5-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW5-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW5-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft
VEW6	VEW6-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW6-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW6-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW7	VEW7-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW7-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW8	VEW8-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW8-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW9	VEW9-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW9-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW9-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW10	VEW10-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW10-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW11	VEW11-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW11-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW11-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW12	VEW12-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW12-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW12-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW12-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft

**TABLE 1 (CONTINUED)**  
**WELL CONSTRUCTION DETAIL SUMMARY**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW13	VEW13-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW13-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW13-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW14	VEW14-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW14-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW15	VEW15-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW15-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW16	VEW16-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW16-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW16-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
PMW1	PMW1-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW1-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW1-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW1-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW2	PMW2-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW2-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW2-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW2-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW3	PMW3-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW3-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW3-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW3-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW4	PMW4-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW4-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW4-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW4-60	Nylaflow tubing	1/4"	60 ft	60 ft
SV23	SV23-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV23-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV24	SV24-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV24-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV25	SV25-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV25-15	Nylaflow tubing	1/4"	15 ft	15 ft

**TABLE 1 (CONTINUED)**  
**WELL CONSTRUCTION DETAIL SUMMARY**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
SV26	SV26-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV26-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV27	SV27-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV27-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV28	SV28-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV28-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV29	SV29-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV29-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV30	SV30-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV30-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV31	SV31-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV31-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV32	SV32-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV32-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV33	SV33-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV33-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV34	SV34-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV34-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV35	SV35-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV35-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV36	SV36-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV37	SV37-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV38	SV38-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV39	SV39-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV40	SV40-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV41	SV41-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV42	SV42-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV43	SV43-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV44	SV44-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV44-15	Nylaflow tubing	1/4"	15 ft	15 ft
	SV44-25	Nylaflow tubing	1/4"	25 ft	25 ft

**TABLE 2**  
**SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(in micrograms per liter -  $\mu\text{g/L}$ )

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV1-5	3/9/2007	OS	69.9	17.4
SV1-5 Dil.	3/9/2007	78.8	70.7	18.2
SV2-5	3/9/2007	15.3	11	3.2
SV3-5	3/9/2007	36.4	38.6	25.3
SV4-5	3/9/2007	39.2	24.2	9.1
SV5-5	3/9/2007	35.3	58.2	40.4
SV6-5	3/9/2007	80.3	115.2	65.3
SV7-5	3/9/2007	99.6	101.7	78.3
SV8-5	3/9/2007	7.2	22.6	17.7
SV9-5	3/9/2007	53.7	11.6	6
SV10-5	3/9/2007	222.2	88.8	79.7
SV11-5	3/9/2007	34.9	1.9	<1
	(DUP) 3/9/2007	32	1.8	<1
SV12-5	3/9/2007	72.8	50.4	63.6
SV13-5	3/9/2007	7.4	16.3	7.4
SV14-5	3/9/2007	50.1	98.7	78.2
SV15-5	3/9/2007	1.4	<1	54.4
SV16-5	3/9/2007	<1	<1	<1
SV17-5	3/9/2007	<1	<1	<1
SV18-5	7/30/2007	163.5	120.2	64.3
SV19-5	7/30/2007	190.8	190.2	239.9
SV20-5	7/30/2007	164.5	99.3	66.2
SV21-5	7/30/2007	<1	<1	<1
SV22-5	7/30/2007	1,079.40	710.8	257.6
	(DUP) 7/30/2007	984.8	684.9	232.8
SV23-5	7/30/2007	72.1	80.4	79.8
SV24-5	2/18/2008		REFUSAL	
SV24-15	10/16/2007	120	32	30
SV24-15	2/18/2008		REFUSAL	
SV25-5	10/16/2007	110	48	100
	2/18/2008		REFUSAL	
	3/2/2009	0.338	<0.02	<0.02
SV25-15	10/16/2007	180	100	250
	2/18/2008		REFUSAL	
	3/2/2009	1.11	<0.02	<0.02
SV26-5	2/18/2008		REFUSAL	
SV26-15	10/16/2007	11	2	14
	2/18/2008	2.2	1.1	

**TABLE 2 (CONTINUED)**  
**SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(in micrograms per liter – µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV27-5	10/16/2007	66	50	88
	2/18/2008	5.1	3.1	<1
	(1P) 3/2/2009	0.816	0.096	<0.02
	(3P) 3/2/2009	0.745	0.132	<0.02
	(7P) 3/2/2009	0.678	0.108	<0.02
	4/28/2010	<0.02	<0.02	<0.02
SV27-15	10/16/2007	74	68	140
	2/18/2008	10	2.5	<1
	(1P) 3/2/2009	0.756	0.05	<0.02
	(3P) 3/2/2009	0.94	0.063	<0.02
	(7P) 3/2/2009	0.679	0.05	<0.02
SV28-5	10/16/2007	1.4	0.4	<0.5
SV29-5	10/16/2007	22	5.4	0.9
	(DUP) 10/16/2007	23	5.2	0.8
	2/18/2008	9.6	1.6	<1
SV29-15	10/16/2007	21	6.3	1
	2/18/2009	13.3	2.9	<1
SV30-5	10/16/2007	53	71	61
	2/18/2008	14.4	15.7	<1
	3/2/2009	2.62	1.8	0.684
	4/27/2010	<0.02	<0.02	<0.02
SV30-15	10/16/2007	4.8	2.8	0.5
	2/18/2008	21.7	15.7	6.5
	3/2/2009	6.35	5.39	1.08
	(DUP) 3/2/2009	6.22	4.75	0.962
	4/27/2010	0.446	1.35	0.36
SV31-5	10/16/2007	1.5	2	0.6
	2/18/2008		REFUSAL	
	3/2/2009	<0.02	0.421	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV31-15	10/16/2007	16	44	53
	(DUP) 10/16/2007	13	41	53
	2/18/2008	11.9	23.4	9
	3/2/2009	0.068	0.029	<0.02
	4/27/2010	0.354	0.570	<0.02
SV32-5	10/16/2007	11	38	73
	2/18/2008	2	7.2	<1
	3/2/2009	0.132	<0.02	<0.02
	4/24/2010	<0.02	<0.02	<0.02
SV32-15	10/16/2007	11	32	49
	2/18/2008	2.3	10.5	9.4
	(DUP) 2/18/2008	2.3	12.4	10.3

**TABLE 2 (CONTINUED)**  
**SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV32-15 (cont'd)	3/2/2009	<0.02	<0.02	0.02
	4/24/2010	0.115	<0.02	<0.02
SV33-5	10/16/2007	25	47	55
	2/18/2008	1	<1	<1
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV33-15	10/16/2007	54	90	140
	2/18/2008	6.7	15.9	<1
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV34-5	3/2/2009	0.276	0.064	<0.02
SV34-15	10/16/2007	92	110	460
	(DUP) 10/16/2007	93	72	140
	3/2/2009	2.68	<0.02	0.24
	4/28/2010	<0.02	<0.02	<0.02
SV35-5	3/2/2009	0.198	<0.02	<0.02
SV35-15	3/2/2009	0.156	<0.02	<0.02
SV36	3/2/2009	26.7	20.7	0.433
	11/24/2009	17.1	17.3	<0.02
	4/27/2010	9.87	12.5	0.527
	10/28/2010	3.57	2.44	0.029
SV37	(1P) 3/2/2009	2.36	4.77	2.71
	(3P) 3/2/2009	2.59	5.2	3.04
	(7P) 3/2/2009	2.21	4.62	2.74
	11/24/2009	11.4	19.9	0.229
	(DUP) 11/24/2009	10.5	17	0.196
	4/27/2010	0.933	1.67	1.18
	4/28/2010	1.43	2.8	2.07
	10/28/2010	0.175	0.38	0.258
	(DUP) 10/28/2010	0.169	0.374	0.299
SV38	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	0.198	0.618	0.941
SV39	3/2/2009	0.307	0.547	1.16
	(DUP) 3/2/2009	0.329	0.564	1.18
SV40	3/2/2009	0.103	0.1	<0.02
	4/27/2010	0.368	0.395	0.684
SV41	3/2/2009	0.081	<0.02	<0.02
	4/27/2010	<0.02	0.058	0.06
SV42	3/2/2009	1.1	0.2	<0.02
	4/27/2010	0.805	0.11	<0.02
	10/28/2010	0.356	0.01	<0.008

**TABLE 2 (CONTINUED)**  
**SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(in micrograms per liter -  $\mu\text{g}/\text{L}$ )

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV43SS	3/2/2009	4.66	0.027	<0.02
	11/24/2009	0.512	0.048	<0.02
	(DUP) 11/24/2009	0.759	<0.02	<0.02
	4/28/2010	1.12	<0.02	<0.02
	10/28/2010	0.189	<0.008	<0.008
SV43-5	4/28/2010	0.46	<0.02	<0.02
	10/28/2010	0.208	<0.008	<0.008
SV43-15	4/28/2010	3.02	0.069	0.155
	10/28/2010	3.37	0.138	0.023
SV44-5	3/2/2009	0.428	0.05	<0.02
SV44-15	3/2/2009	1.11	0.118	<0.02
	4/28/2010	0.135	<0.02	<0.02
SV44-25	3/2/2009	25.5	7.71	0.787
	(DUP) 3/2/2009	17.3	6.4	0.626
	4/28/2010	0.41	0.287	<0.02
	(DUP) 4/28/2010	0.45	0.309	<0.02
	10/25/2007	24	29	6.6
VEW3-5	11/24/2009	0.748	0.198	<0.02
	4/28/2010	16.6	0.699	<0.02
	10/28/2010	7.33	0.455	0.229
	10/25/2007	240	140	74
VEW3-15	3/2/2009	196	8.82	<0.02
	11/24/2009	1.48	0.125	<0.02
	4/28/2010	92.3	3.51	1.46
	10/28/2010	16	0.725	0.27
	10/25/2007	210	120	83
VEW3-25	3/2/2009	767	107	21.5
	4/28/2010	87.6	11.9	22.5
	10/28/2010	24.9	1.22	0.363
	11/14/2007	21	17	1.7
VEW4-5	4/27/2010	2.62	<0.02	0.209
	10/28/2010	0.636	0.108	<0.008
	11/14/2007	380	150	86
VEW4-15	(DUP) 11/14/2007	360	140	73
	11/14/2007	470	180	160
VEW4-25	3/2/2009	2.77	0.149	0.283
	10/25/2007	23	13	3.8
VEW5-5	10/30/2007	12	8.2	3.1
	4/27/2010	<0.02	<0.02	<0.02
	10/28/2010	0.085	<0.008	<0.008

**TABLE 2 (CONTINUED)**  
**SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW5-15	10/25/2007	19	14	6
	10/30/2007	19	13	7.8
	3/2/2009	0.429	0.024	<0.02
VEW5-25	10/25/2007	12	8.7	13
	(DUP)10/25/2007	4.2	3.2	4.9
	10/30/2007	16	17	11
	3/2/2009	0.267	<0.02	<0.02
	(DUP) 3/2/2009	0.303	<0.02	<0.02
VEW5-60	10/25/2007	170	550	170
	10/30/2007	140	570	150
VEW7-5	4/28/2010	<0.02	<0.02	<0.02
VEW6-5	11/14/2007	3.7	3.1	<0.5
	2/18/2008	7.3	14.6	<1
	4/27/2010	0.688	0.641	<0.02
	4/28/2010	0.485	0.426	<0.02
VEW6-15	11/14/2007	110	110	17
	2/18/2008	8.2	12.4	<1
	3/2/2009	20.1	1.71	0.268
VEW6-25	10/30/2007	8.5	9.1	2.5
	11/14/2007	320	370	250
	3/2/2009	8.15	5.6	7.72
VEW8-15	4/27/2010	<0.02	<0.02	<0.02
VEW9-5	10/25/2007	39	43	42
VEW9-15	10/25/2007	89	130	170
	3/2/2009	1.58	2.08	1.99
	4/27/2010	<0.02	0.65	0.588
VEW9-25	10/25/2007	64	69	61
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	1.96	0.307	<0.02
VEW11-15	3/2/2009	8.33	0.685	<0.02
	4/27/2010	<0.02	0.381	0.353
VEW11-25	3/2/2009	0.984	3.01	<0.02
	4/27/2010	<0.02	<0.02	<0.02
VEW12-5	10/25/2007	30	64	120
VEW12-15	10/25/2007	3.1	8.2	9.8
	3/2/2009	0.184	<0.02	<0.02
	4/27/2010	<0.02	2.4	0.648
VEW12-25	10/25/2007	56	110	210
	3/2/2009	0.918	4.94	852
	4/27/2010	5.51	3.62	0.477
VEW12-60	10/25/2007	10	43	9.0

**TABLE 2 (CONTINUED)**  
**SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(in micrograms per liter -  $\mu\text{g/L}$ )

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW13-15	3/2/2009	6.08	0.76	<0.02
	4/27/2010	<0.02	<0.02	<0.02
VEW16-5	4/27/2010	<0.02	<0.02	<0.02
VEW16-15	3/2/2009	20.5	26.9	13.7
	4/27/2010	0.570	<0.02	<0.02
VEW16-25	3/2/2009	20.6	36.8	12.9
	4/27/2010	<0.02	<0.02	<0.02
VEW18-5	3/2/2009	2.5	0.294	<0.02
	(DUP) 3/2/2009	2.27	0.302	<0.02
	10/28/2010	6.540	0.452	0.212
PW1-5	11/14/2007	31	6.1	1.1
	3/2/2009	<0.02	<0.02	<0.02
PW1-15	11/14/2007	21	1.5	<0.5
	3/2/2009	0.168	<0.02	<0.02
PW1-25	11/14/2007	4,200	140	55
	3/2/2009	38.8	4.07	1.47
PW1-60	11/14/2007	70	220	39
PW2-5	12/18/2007	2	8.9	2.5
	(DUP) 12/18/2007	1.5	7.2	2.5
PW2-15	12/17/2007	1.5	7.4	3.1
	12/18/2007	6.2	12	6.2
PW2-25	12/18/2007	37	19	20
PW2-60	12/10/2007	75	370	100
	12/18/2007	75	370	100
PW3-5	12/10/2007	3.8	1.7	0.6
	(DUP) 12/10/2007	4.3	1.7	0.7
PW3-15	12/10/2007	1.4	1	1.9
PW3-25	12/10/2007	17	2.2	1.6
PW3-60	12/10/2007	<0.1	<0.1	<0.5
PW4-5	12/18/2007	3.8	1.7	0.6
	(DUP) 12/18/2007	4.3	1.7	0.7
PW4-15	12/18/2007	1.4	1	1.9
PW4-25	12/18/2007	17	2.2	1.6
PW4-60	12/18/2007	<0.1	<0.1	<0.5

NOTES:

PCE - Tetrachloroethylene in micrograms per liter

TCE - Trichloroethylene in micrograms per liter

(DUP) - Duplicate Sample

(#P) - No. of Volume Purge

**TABLE 3**  
**SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(balls per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW3-5	2/14/2008	10.73	2.23	1.26
	10/31/2008	5.45	0.3	<0.05
	5/13/2009	3.49	0.49	<0.05
	6/10/9	3.21	0.24	<0.05
	6/29/2009	1.88	<0.05	<0.05
	9/8/2009	0.18	<0.05	<0.05
	9/17/2010	0.55	<0.05	<0.05
VEW3-15	2/14/2008	69.83	18.04	18.4
	11/10/2008	11.13	2.57	1.66
	5/13/2009	21.02	2.33	3.2
	6/1/2009	14.76	4.09	4.36
	6/29/2009	6.07	2.27	<0.05
	8/4/2009	2.94	<0.05	<0.05
	9/8/2009	2.22	<0.05	<0.05
	9/17/2010	7.89	0.85	1.01
VEW3-25	8/4/2008	10.24	1.53	1.74
	11/10/2008	9.06	2.98	3.56
	5/13/2009	37.76	8.2	8.87
	6/1/2009	29.08	8.75	7.95
	6/29/2009	19.77	6.74	<0.05
	8/4/2009	15.13	1.77	2.03
	9/8/2009	7.66	0.98	1.79
	9/17/2010	10.49	1.97	2.32
VEW4-5	2/14/2008	0.74	<1	<1
VEW4-15	2/14/2008	2.35	<1	<1
	11/19/2008	0.38	<0.05	<0.05
VEW4-25	8/4/2008	2.47	0.26	<0.05
	11/10/2008	0.72	0.09	<0.05
VEW5-5	2/14/2008	<1	<1	<1
VEW5-15	2/14/2008	<1	<1	<1
VEW5-25	8/4/2008	0.19	<0.05	<0.05
	10/21/2008	0.23	<0.05	<0.05
VEW5-60	11/10/2008	3.81	27.75	17.72
VEW6-5	2/14/2008	0.74	<1	<1
VEW6-15	2/14/2008	2.21	2.79	2.52
	11/10/2008	0.48	0.12	<0.05
VEW6-25	8/4/2008	2.1	0.22	<0.05
	11/10/2008	0.14	0.25	<0.05
VEW7-15	4/2/2008	3.74	2.95	0.82
	5/5/2008	2.65	0.62	<0.01
	6/12/2008	2.04	0.2	<0.01
	9/2/2008	0.1	0.38	<0.05

**TABLE 3 (CONTINUED)**  
**SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(b parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW7-15 (cont'd)	10/6/2008	0.21	<0.05	<0.05
VEW8-15	4/2/2008	2.02	2.44	0.99
	5/5/2008	2.69	0.87	<0.01
	6/12/2008	4.4	0.81	<0.01
	9/2/2008	0.25	1.79	<0.05
	10/6/2008	2.03	0.21	<0.05
	11/19/2008	0.43	<0.05	<0.05
VEW9-5	2/14/2008	<1	<1	<1
VEW9-15	2/14/2008	0.88	1.86	1.26
	11/10/2008	0.8	0.1	<0.05
VEW9-25	8/4/2008	0.15	<0.05	<0.05
VEW10-5	11/4/2008	<0.05	<0.05	<0.05
VEW10-15	4/2/2008	0.22	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	8/4/2008	<0.05	<0.05	<0.05
VEW11-15	11/10/2008	<0.05	<0.05	<0.05
VEW11-25	4/2/2008	0.14	0.56	<0.01
	5/5/2008	<0.01	0.32	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	9/2/2008	0.17	0.25	<0.05
VEW12-5	2/14/2008	2.65	3.91	1.51
	11/4/2008	<0.05	<0.05	<0.05
VEW12-15	2/14/2008	<1	<1	<1
VEW12-25	8/4/2008	0.39	0.36	<0.05
VEW12-60	11/10/2008	2.75	21.49	10.1
VEW13-5	11/4/2008	<0.05	<0.05	<0.05
VEW13-25	4/2/2008	1.96	5.91	2.75
	5/5/2008	0.75	2.26	1.65
	6/12/2008	0.63	1.67	0.95
	9/2/2008	0.99	2.69	1.26
VEW14-5	9/2/2008	0.18	<0.05	<0.05
VEW14-15	4/2/2008	0.61	1.08	<0.01
	5/5/2008	0.23	0.27	<0.01
	6/12/2008	0.24	0.34	<0.01
VEW15-15	4/2/2008	0.98	1.31	<0.01
	5/5/2008	0.7	0.87	<0.01
	6/12/2008	0.75	0.88	<0.01
	9/2/2008	0.45	0.67	<0.05
	11/10/2008	0.33	0.6	<0.05
VEW16-15	11/10/2008	0.77	0.59	<0.05

**TABLE 3 (CONTINUED)**  
**SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(b parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW16-25	4/2/2008	1	0.16	<0.01
	5/5/2008	0.28	0.61	<0.01
	6/2/2008	0.69	0.17	<0.01
	9/2/2008	0.86	0.92	<0.05
	10/21/2008	1.62	1.29	<0.05
VEW17-5	1/8/2010	<0.05	<0.05	<0.05
	1/14/2010	0.26	0.26	<0.05
	1/20/2010	0.21	0.19	<0.05
	1/25/2010	0.22	0.2	<0.05
	2/4/2010	0.23	0.5	<0.05
	2/9/2010	0.17	0.24	<0.05
	2/17/2010	0.18	0.19	<0.05
	2/24/2010	0.11	<0.05	<0.05
	3/4/2010	<0.05	<0.05	<0.05
	3/11/2010	<0.05	<0.05	<0.05
VEW18-5	1/8/2010	0.14	<0.05	<0.05
	1/14/2010	<0.05	<0.05	<0.05
	1/20/2010	<0.05	<0.05	<0.05
	1/25/2010	<0.05	<0.05	<0.05
	2/4/2010	<0.05	<0.05	<0.05
	2/9/2010	<0.05	<0.05	<0.05
	2/17/2010	<0.05	<0.05	<0.05
	2/24/2010	<0.05	<0.05	<0.05
	3/4/2010	<0.05	<0.05	<0.05
	3/11/2010	<0.05	<0.05	<0.05
Inlet	1/4/2008	18.23	10.42	15.12
	1/11/2008	10.14	3.16	1.51
	1/17/2008	8.38	1.86	<1
	1/21/2008	6.32	1.3	<1
	1/30/2008	5.29	1.49	<1
	2/5/2008	3.09	<1	<1
	2/14/2008	2.94	0.93	<1
	3/7/2008	0.91	1.13	0.76
	3/11/2008	0.65	1.09	0.69
	3/20/2008	0.65	0.97	<0.01
	3/27/2008	0.36	0.38	<0.01
	4/2/2008	0.91	1.54	0.55
	4/10/2008	0.96	0.88	<0.01
	4/15/2008	0.92	0.39	<0.01
	4/25/2008	1.15	0.67	<0.01

**TABLE 3 (CONTINUED)**  
**SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(b parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	5/5/2008	1.14	0.27	<0.01
	5/14/2008	0.92	0.22	<0.01
	5/19/2008	0.81	0.45	<0.01
	5/27/2008	0.98	0.31	<0.01
	6/2/2008	1.41	0.73	<0.01
	6/12/2008	1.1	0.28	<0.01
	6/19/2008	0.88	0.38	<0.01
	6/23/2008	0.76	<0.01	<0.01
	7/8/2008	0.72	<0.01	<0.01
	7/17/2008	0.36	<0.05	<0.05
	8/4/2008	0.49	<0.05	<0.05
	8/11/2008	1.75	0.47	<0.05
	8/18/2008	0.14	<0.05	<0.05
	8/25/2008	0.47	<0.05	<0.05
	9/2/2008	0.72	0.46	<0.05
	9/11/2008	0.91	<0.05	<0.05
	9/19/2008	0.11	<0.05	<0.05
	9/23/2008	0.28	<0.05	<0.05
	9/30/2008	1.12	0.56	<0.05
	10/6/2008	0.86	0.41	<0.05
	10/13/2008	0.27	0.19	<0.05
	10/15/2008	1.16	<0.05	<0.05
	10/21/2008	0.57	0.86	<0.05
	10/31/2008	1.87	0.3	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	0.15	0.26	<0.05
	11/19/2008	0.4	<0.05	<0.05
	5/13/2009	3.45	0.5	<0.05
	5/27/2009	4.53	0.32	<0.05
	6/1/2009	2.63	0.26	<0.05
	6/9/2009	1.94	0.22	<0.05
	6/15/2009	2.78	0.26	<0.05
	6/22/2009	2.61	0.23	<0.05
	7/9/2009	2.72	0.22	<0.05
	7/15/2009	3.11	<0.05	<0.05
	7/21/2009	2.76	<0.05	<0.05
	7/28/2009	4.18	1.53	1.67
	8/4/2009	2.31	0.25	<0.05
	8/11/2009	4.37	0.39	<0.05
	8/28/2009	1.05	<0.05	<0.05
	9/8/2009	0.83	<0.05	<0.05
	9/17/2009	0.64	<0.05	<0.05

**TABLE 3 (CONTINUED)**  
**SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(b parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	9/24/2009	1.26	<0.05	<0.05
	10/1/2009	0.82	<0.05	<0.05
	1/8/2010	0.34	<0.05	<0.05
	1/25/2010	1.27	0.18	<0.05
	2/4/2010	1.50	<0.05	<0.05
	2/9/2010	1.18	0.17	<0.05
	2/24/2010	0.56	<0.05	<0.05
	7/20/2010	0.42	<0.05	<0.05
	7/30/2010	0.49	<0.05	<0.05
	8/6/2010	0.37	<0.05	<0.05
	8/12/2010	0.42	<0.05	<0.05
	8/20/2010	0.29	<0.05	<0.05
	8/26/2010	0.12	<0.05	<0.05
	8/30/2010	0.19	<0.05	<0.05
	9/8/2010	0.50	<0.05	<0.05
	11/11/2010	0.72	<0.05	<0.05
Outlet	1/4/2008	<1	<1	<1
	1/11/2008	<1	<1	<1
	1/17/2008	<1	0.93	<1
	1/21/2008	<1	<1	<1
	1/30/2008	<1	<1	<1
	2/5/2008	<1	<1	<1
	2/14/2008	<1	<1	<1
	3/7/2008	0.51	0.98	1.11
	3/11/2008	<1	<1	0.51
	3/20/2008	<0.01	<0.01	<0.01
	3/27/2008	<0.01	<0.01	<0.01
	4/2/2008	<0.01	<0.01	<0.01
	4/10/2008	<0.01	<0.01	<0.01
	4/15/2008	<0.01	<0.01	<0.01
	4/25/2008	<0.01	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	5/14/2008	<0.01	<0.01	<0.01
	5/19/2008	<0.01	<0.01	<0.01
	5/27/2008	<0.01	<0.01	<0.01
	6/2/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	6/19/2008	<0.01	<0.01	<0.01
	6/23/2008	<0.01	<0.01	<0.01
	7/8/2008	<0.01	<0.01	<0.01
	7/17/2008	<0.05	<0.05	<0.05
	8/4/2008	<0.05	<0.05	<0.05

**TABLE 3 (CONTINUED)**  
**SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
(bparts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	8/11/2008	<0.05	<0.05	<0.05
	8/18/2008	<0.05	<0.05	<0.05
	8/25/2008	<0.05	<0.05	<0.05
	9/2/2008	<0.05	<0.05	<0.05
	9/11/2008	<0.05	<0.05	<0.05
	9/19/2008	<0.05	<0.05	<0.05
	9/23/2008	<0.05	<0.05	<0.05
	9/30/2008	<0.05	<0.05	<0.05
	10/6/2008	0.34	<0.05	<0.05
	10/13/2008	<0.05	<0.05	<0.05
	10/15/2008	<0.05	<0.05	<0.05
	10/21/2008	<0.05	<0.05	<0.05
	10/31/2008	<0.05	<0.05	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	<0.05	<0.05	<0.05
	11/19/2008	<0.05	<0.05	<0.05
	5/13/2009	<0.05	<0.05	<0.05
	5/27/2009	<0.05	<0.05	<0.05
	6/1/2009	<0.05	<0.05	<0.05
	6/9/2009	<0.05	<0.05	<0.05
	6/15/2009	<0.05	<0.05	<0.05
	6/22/2009	<0.05	<0.05	<0.05
	7/9/2009	<0.05	<0.05	<0.05
	7/15/2009	<0.05	<0.05	<0.05
	7/21/2009	<0.05	<0.05	<0.05
	7/28/2009	<0.05	<0.05	<0.05
	8/4/2009	<0.05	<0.05	<0.05
	8/11/2009	<0.05	<0.05	<0.05
	8/28/2009	<0.05	<0.05	<0.05
	9/8/2009	<0.05	<0.05	<0.05
	9/17/2009	<0.05	<0.05	<0.05
	9/24/2009	<0.05	<0.05	<0.05
	1/8/2010	<0.05	<0.05	<0.05
	1/25/2010	0.15	0.49	0.75
	2/4/2010	0.17	0.27	<0.05
	2/9/2010	<0.05	0.28	<0.05
	2/24/2010	<0.05	<0.05	<0.05
	7/20/2010	<0.05	<0.05	<0.05
	7/30/2010	<0.05	<0.05	<0.05
	8/6/2010	<0.05	<0.05	<0.05
	8/12/2010	<0.05	<0.05	<0.05
	8/20/2010	<0.05	<0.05	<0.05

**TABLE 3 (CONTINUED)**  
**SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
**(parts per million by volume - ppmv)**

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	8/26/2010	<0.05	<0.05	<0.05
	8/30/2010	<0.05	<0.05	<0.05
	9/8/2010	<0.05	<0.05	<0.05
	9/17/2010	<0.05	<0.05	<0.05
	11/11/2010	<0.05	<0.05	<0.05
Mid	1/4/2008	14.55	10.23	14.87
	1/11/2008	Not sampled.		
	1/17/2008	<1	<1	<1
	1/21/2008	Not sampled.		
	1/30/2008	<1	<1	<1
	2/5/2008	<1	<1	<1
	2/14/2008	<1	<1	<1
	3/7/2008	<1	<1	1.44
	3/11/2008	<1	<1	0.98
	3/20/2008	<0.01	<0.01	<0.01
	3/27/2008	<0.01	<0.01	<0.01
	4/2/2008	<0.01	<0.01	0.69
	4/10/2008	<0.01	<0.01	<0.01
	4/15/2008	<0.01	<0.01	<0.01
	4/25/2008	<0.01	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	5/14/2008	<0.01	<0.01	<0.01
	5/19/2008	<0.01	<0.01	<0.01
	5/27/2008	<0.01	<0.01	<0.01
	6/2/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	6/19/2008	<0.01	<0.01	<0.01
	6/23/2008	<0.01	<0.01	<0.01
	7/8/2008	<0.01	<0.01	<0.01
	7/17/2008	<0.05	<0.05	<0.05
	8/4/2008	0.54	0.39	<0.05
	8/11/2008	<0.05	<0.05	<0.05
	8/18/2008	<0.05	0.32	<0.05
	8/25/2008	<0.05	0.39	<0.05
	9/2/2008	0.08	0.55	<0.05
	9/11/2008	<0.05	<0.05	<0.05
	9/19/2008	<0.05	<0.05	<0.05
	9/23/2008	<0.05	<0.05	<0.05
	9/30/2008	<0.05	<0.05	<0.05
	10/6/2008	<0.05	<0.05	<0.05
	10/13/2008	<0.05	<0.05	<0.05
	10/15/2008	<0.05	<0.05	<0.05

**TABLE 3 (CONTINUED)**  
**SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**  
**(parts per million by volume - ppmv)**

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Mid (cont'd)	10/21/2008	<0.05	<0.05	<0.05
	10/31/2008	<0.05	<0.05	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	<0.05	<0.05	<0.05
	11/19/2008	<0.05	<0.05	<0.05
	2/9/2010	<0.05	<0.05	<0.05
	2/24/2010	<0.05	<0.05	<0.05

Notes:

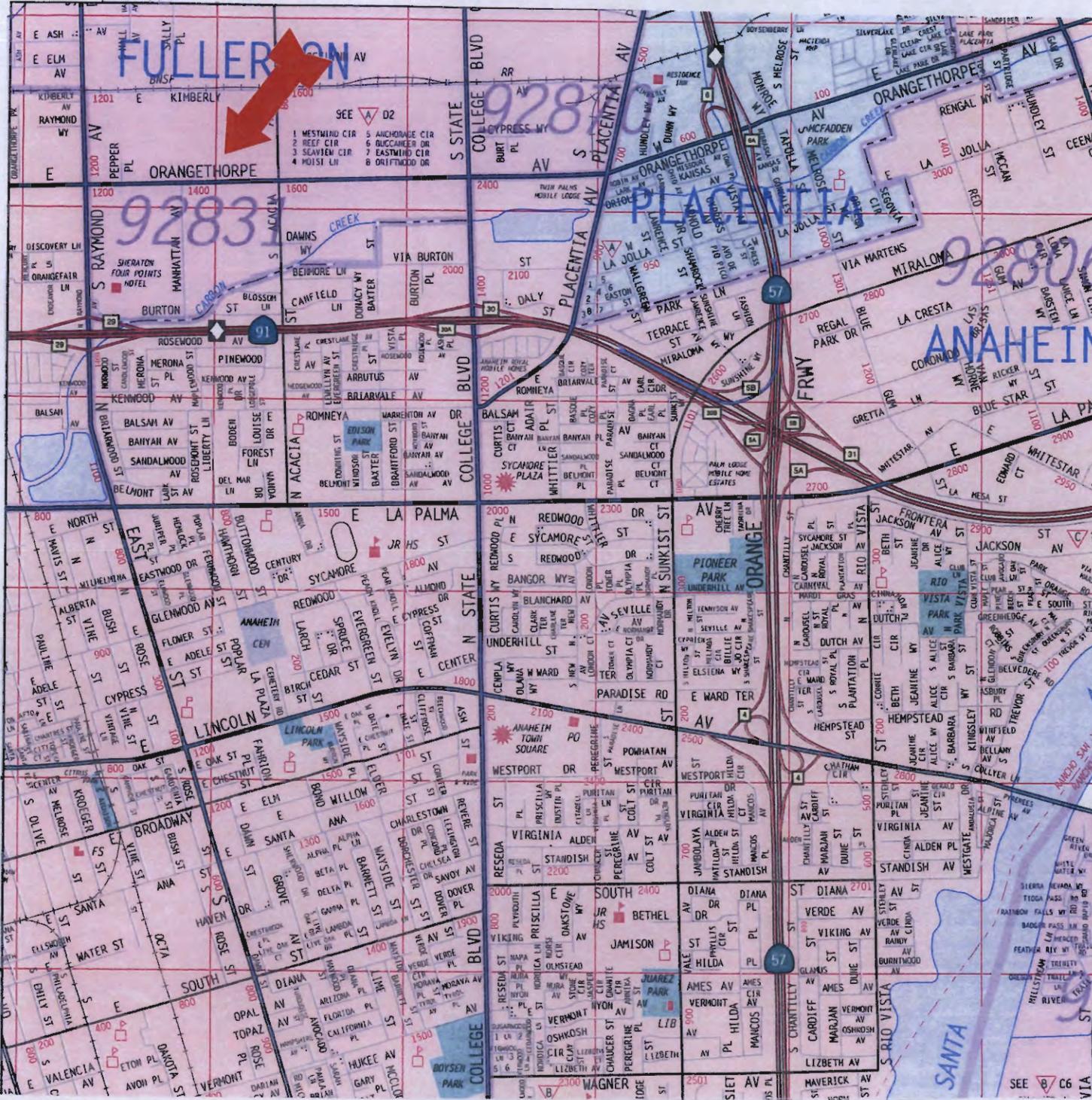
- Samples collected from 1/4/08 through 2/14/08 were reported in mg/L by the laboratory and converted to ppmv.
- Samples collected from 3/7/08 through 7/8/08 were reported in ug/L by the laboratory and converted to ppmv.

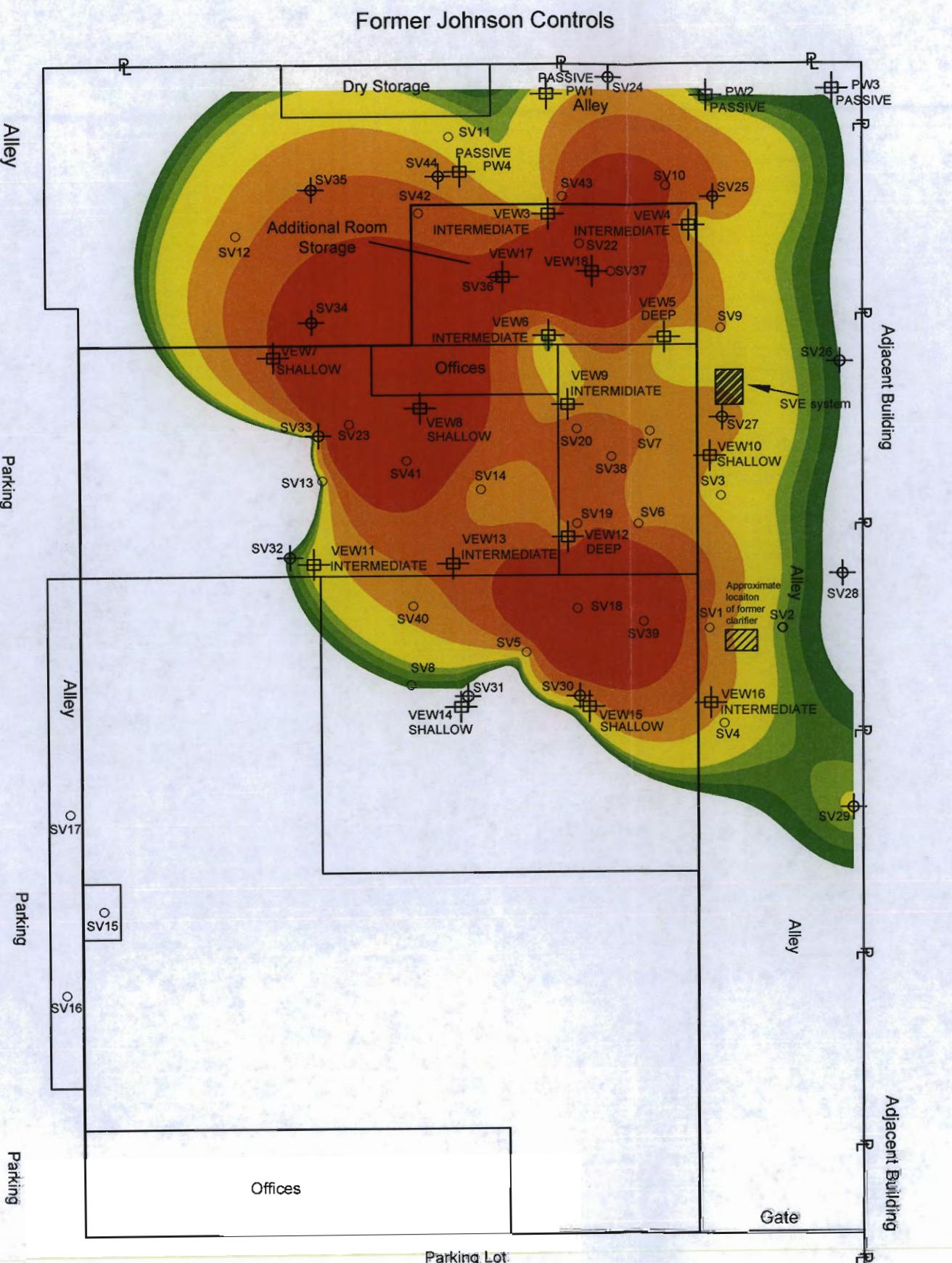
**TABLE 4**  
**SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL**  
**1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA**

Sample ID	Date Sampled	Sample Concentration				Pipe Dia. inches	Flow Rate cfm	Cumulative Time hrs	Mass Removed	
		PCE ppmv	PCE ug/L	TCE ppmv	TCE ug/L				Cumulative PCE lbs	Cumulative TCE lbs
Inlet	1/4/2008	17.971	124	10.182	56	4	88.6	0.0	0.00	0.00
Inlet	1/11/2008	10.000	69	3.091	17	4	133.5	161.8	5.57	0.69
Inlet	1/17/2008	8.261	57	1.818	10	4	222.2	308.1	12.50	1.29
Inlet	1/21/2008	6.232	43	1.273	7	4	247.2	401.1	16.19	1.59
Inlet	1/30/2008	5.217	36	1.455	8	4	185.7	619	21.64	2.20
Inlet	2/5/2008	3.043	21	<RL	<RL	4	269.3	761	24.64	2.20
Inlet	2/14/2008	2.899	20	0.909	5	4	306.8	977.1	29.60	2.82
Inlet	3/7/2008	0.893	6.16	1.105	6.08	4	330.2	1201.9	31.31	3.66
Inlet	3/11/2008	0.642	4.43	1.069	5.88	4	157.3	1298.3	31.56	3.83
Inlet	3/20/2008	0.638	4.40	0.953	5.24	4	130.1	1515.3	32.02	4.11
Inlet	3/27/2008	0.358	2.47	0.375	2.06	4	162.0	1681.2	32.27	4.21
Inlet	4/2/2008	0.900	6.21	1.504	8.27	4	162.0	1823.6	32.80	4.57
Inlet	4/10/2008	0.951	6.56	0.864	4.75	4	121.4	2018.2	33.38	4.78
Inlet	4/15/2008	0.907	6.26	0.385	2.12	4	158.6	2137.9	33.83	4.85
Inlet	4/25/2008	1.132	7.81	0.651	3.58	4	132.9	2371.8	34.73	5.06
Inlet	5/5/2008	1.120	7.73	0.267	1.47	4	160.5	2493.1	35.30	5.11
Inlet	5/14/2008	0.909	6.27	0.211	1.16	4	150.4	2707.9	36.05	5.18
Inlet	5/19/2008	0.797	5.50	0.436	2.40	4	123.0	2828.6	36.36	5.25
Inlet	5/27/2008	0.965	6.66	0.385	2.12	4	123.0	3020.1	36.95	5.34
Inlet	6/2/2008	1.390	9.59	0.716	3.94	4	256.8	3163	38.26	5.61
Inlet	6/12/2008	1.084	7.48	0.278	1.53	4	225.0	3403.2	39.77	5.77
Inlet	6/19/2008	0.865	5.97	0.367	2.02	4	136.1	3569.6	40.28	5.85
Inlet	6/23/2008	0.762	5.26	<RL	<RL	4	229.6	3667.3	40.72	5.85
Inlet	7/3/2008	0.978	6.75	<RL	<RL	4	225.2	3905.8	42.07	5.85
Inlet	7/8/2008	0.710	4.90	<RL	<RL	4	176.0	4027.1	42.46	5.85
Inlet	7/17/2008	0.360	2.48	<RL	<RL	4	172.2	4243.8	42.81	5.85
Inlet	8/4/2008	0.490	3.38	<RL	<RL	4	158.2	4677.2	43.68	5.85
Inlet	8/11/2008	1.750	12.08	0.470	2.59	4	105.2	4844.7	44.47	5.94
Inlet	8/18/2008	0.140	0.97	<RL	<RL	4	167.8	5014.1	44.58	5.94
Inlet	8/25/2008	0.470	3.24	<RL	<RL	4	153.0	5179.3	44.88	5.94
Inlet	9/2/2008	0.720	4.97	0.420	2.31	4	190.2	5373.3	45.57	6.10
Inlet	9/11/2008	0.910	6.28	<RL	<RL	4	111.2	5585.6	46.12	6.10
Inlet	9/19/2008	0.110	0.76	<RL	<RL	4	139.3	5778.1	46.20	6.10
Inlet	9/23/2008	0.280	1.93	<RL	<RL	4	136.6	5874.7	46.29	6.10
Inlet	9/30/2008	1.120	7.73	0.560	3.08	4	106.4	6041.6	46.81	6.20
Inlet	10/6/2008	0.860	5.93	0.410	2.26	4	143.1	6185	47.26	6.29
Inlet	10/13/2008	0.270	1.86	0.190	1.05	4	129.9	6354	47.41	6.33
Inlet	10/15/2008	1.160	8.00	<RL	<RL	4	129.9	6402	47.60	6.33
Inlet	10/21/2008	0.570	3.93	0.860	4.73	4	106.6	6526.7	47.80	6.45
Inlet	10/30/2008	1.870	12.90	0.300	1.65	4	107.9	6784.6	49.14	6.53
Inlet	11/4/2008	<RL	<RL	<RL	<RL	4	140.0	6881	49.14	6.53
Inlet	11/10/2008	0.150	1.04	0.260	1.43	4	105.1	7013.8	49.19	6.57
Inlet	11/19/2008	0.400	2.76	<RL	<RL	4	87.6	7230.1	49.39	6.57
Inlet	11/26/2008	0.400	2.76	<RL	<RL	4	124.2	7256.1	49.42	6.57
Inlet	11/28/2008	0.400	2.76	<RL	<RL	4	124.3	7305.5	49.48	6.57
Inlet	5/13/2009	3.450	23.81	<RL	<RL	4	83.1	7305.5	49.48	6.57
Inlet	5/22/2009	3.450	23.81	<RL	<RL	4	86.1	7521.5	51.14	6.66
Inlet	5/27/2009	4.530	31.26	<RL	<RL	4	89.4	7639.2	52.37	6.70
Inlet	6/1/2009	2.630	18.15	<RL	<RL	4	94.1	7760	53.14	6.73
Inlet	6/8/2009	1.940	13.39	<RL	<RL	4	100.5	7952.3	54.11	6.77
Inlet	6/15/2009	2.780	19.18	<RL	<RL	4	109.9	8097.2	55.25	6.81

**TABLE 4 (CONTINUED)**

Sample ID	Date Sampled	Sample Concentration				Pipe Dia. inches	Flow Rate cfm	Cumulative Time hrs	Mass Removed	
		PCE ppmv	PCE ug/L	TCE ppmv	TCE ug/L				Cumulative PCE lbs	Cumulative TCE lbs
Inlet	6/22/2009	2.610	18.01	0.230	1.27	4	95.1	8263.8	56.32	6.85
Inlet	6/29/2009	2.610	18.01	0.230	1.27	4	105.2	8431.9	57.50	6.89
Inlet	7/9/2009	2.720	18.77	0.220	1.21	4	105.3	8671.9	59.28	6.95
Inlet	7/15/2009	3.110	21.46	<RL	<RL	4	105.8	8815.9	60.50	6.95
Inlet	7/21/2009	2.760	19.04	<RL	<RL	4	105.7	8959.9	61.58	6.95
Inlet	7/28/2009	4.180	28.84	1.530	8.42	4	108.3	9127.7	63.54	7.24
Inlet	8/4/2009	2.310	15.94	0.250	1.38	4	100.1	9294.7	64.54	7.28
Inlet	8/11/2009	4.370	30.15	0.390	2.15	4	107.6	9464.8	66.60	7.35
Inlet	8/21/2009	4.370	30.15	0.390	2.15	4	102.8	9704	69.37	7.45
Inlet	8/28/2009	1.050	7.25	<RL	<RL	4	107.6	9832	70.44	7.45
Inlet	9/3/2009	1.050	7.25	<RL	<RL	4	121.3	9891	71.06	7.45
Inlet	9/8/2009	0.830	5.73	<RL	<RL	4	112.1	9966.7	71.38	7.45
Inlet	9/17/2009	0.640	4.42	<RL	<RL	4	106.8	10182	71.89	7.45
Inlet	9/24/2009	1.260	8.69	<RL	<RL	4	109.7	10302.1	73.09	7.45
Inlet	10/1/2009	0.820	5.66	<RL	<RL	4	108.9	10471.2	73.75	7.45
Inlet	1/8/2010	0.340	2.35	<RL	<RL	4	144.0	10619.6	74.16	7.45
Inlet	1/25/2010	1.270	8.76	<RL	<RL	4	217.1	10772.3	76.30	7.57
Inlet	2/4/2010	1.500	10.35	<RL	<RL	4	200.0	11009.4	79.31	7.57
Inlet	2/9/2010	1.180	8.14	<RL	<RL	4	185.8	11129.4	81.33	7.69
Inlet	2/24/2010	0.560	3.86	<RL	<RL	4	235.7	11488.5	82.96	7.69
Inlet	7/20/2010	0.420	2.90	<RL	<RL	4	179.7	12158.5	84.97	7.69
Inlet	7/30/2010	0.490	3.38	<RL	<RL	4	253.0	12398.8	87.88	7.69
Inlet	8/6/2010	0.370	2.55	<RL	<RL	4	231.7	12566.0	88.78	7.69
Inlet	8/12/2010	0.420	2.90	<RL	<RL	4	341.3	12711.1	89.93	7.69
Inlet	8/20/2010	0.290	2.00	<RL	<RL	4	221.5	12903.7	90.49	7.69
Inlet	8/26/2010	0.120	0.83	<RL	<RL	4	191.2	13044.9	90.69	7.69
Inlet	8/30/2010	0.190	1.31	<RL	<RL	4	224.1	13146.1	90.96	7.69
Inlet	9/8/2010	0.500	3.45	<RL	<RL	4	238.7	13386.0	92.01	7.69
Inlet	11/11/2010	0.720	4.97	<RL	<RL	4	253.2	14572.2	98.71	7.69





**General Notes**

- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

**Project Details**

Name	Universal Fullerton
Address	1551 E. Orangethorpe Ave. Fullerton, CA
Number	7115

**Figure Details**

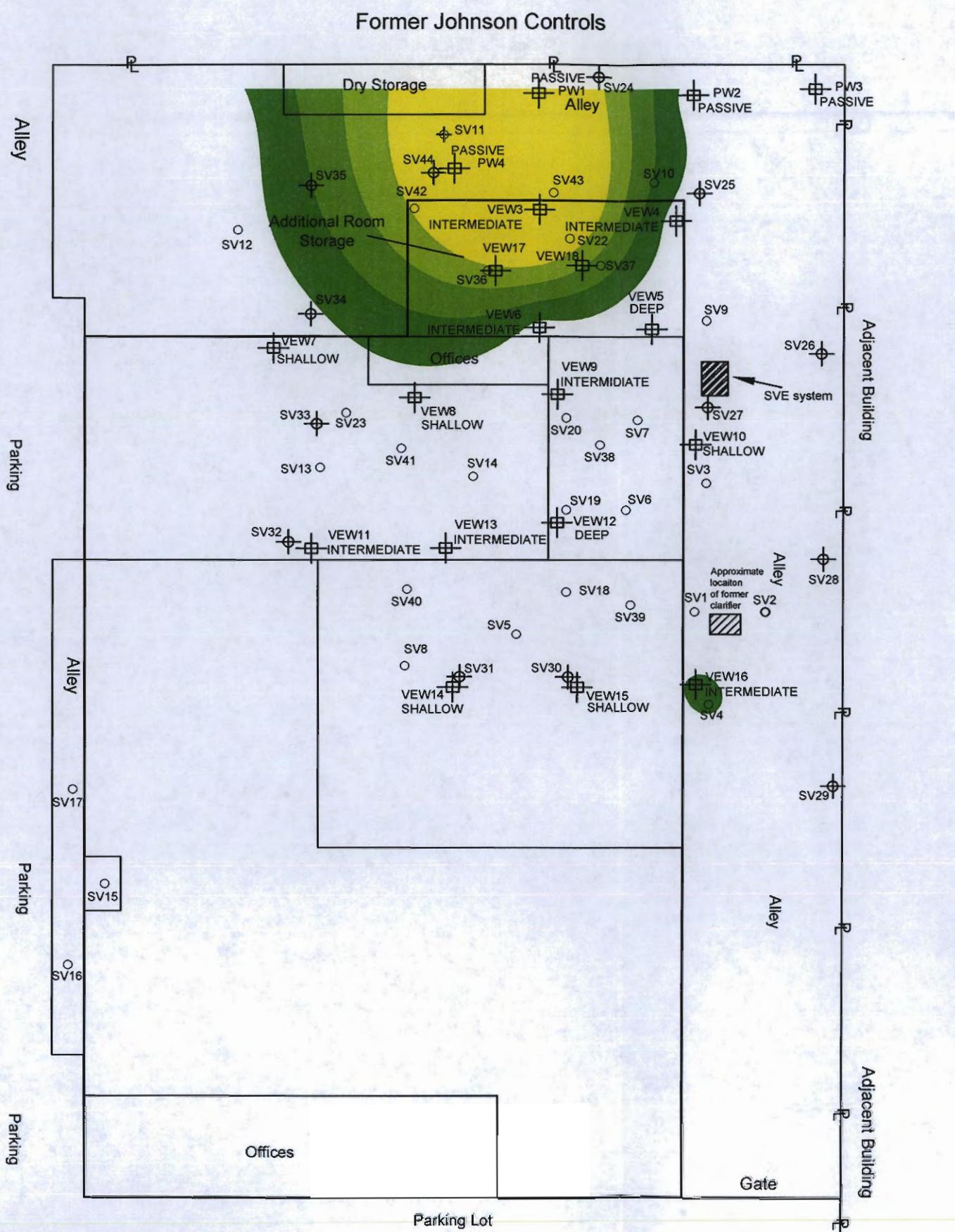
SITE PLAN WITH PRE-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS	
Figure #	Figure 2A
Revise Date	March 2009
Scale	1" = 60'



**Company Information**

Address	520 West 1st Street Tustin, CA 92780
Telephone	(714) 730-5597
Fax	(714) 730-6476

**THE REYNOLDS GROUP  
ENVIRONMENTAL SERVICES**



## General Notes

- Vapor Extraction Well Location ( Multi-depth well screened at 2 to 5 and 12 to 15 )

Vapor Extraction Well Location ( Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs )

Vapor Extraction Well Location ( Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs )

Passive Vapor Well Location ( Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs )

Temporary Soil Vapor Probe Location

Soil Gas Location

## Project Details

Universal Fullerton

dress  
1551 E. Orangethorpe Ave.  
Fullerton, CA

umber  
7115

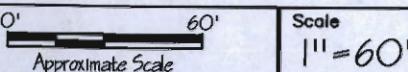
## Figure Details

SITE PLAN WITH POST-REMEDIATION  
PCE SOIL VAPOR CONCENTRATION  
CONTOURS AT SUB SLAB - 5 FT BGS  
(MARCH 2009)

Figure 2B

wise Date

March 2009

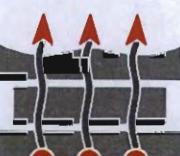


## Company Information

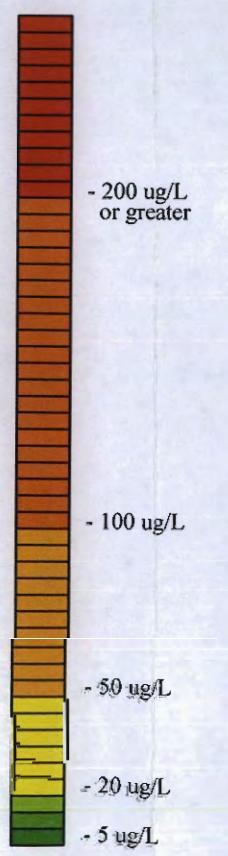
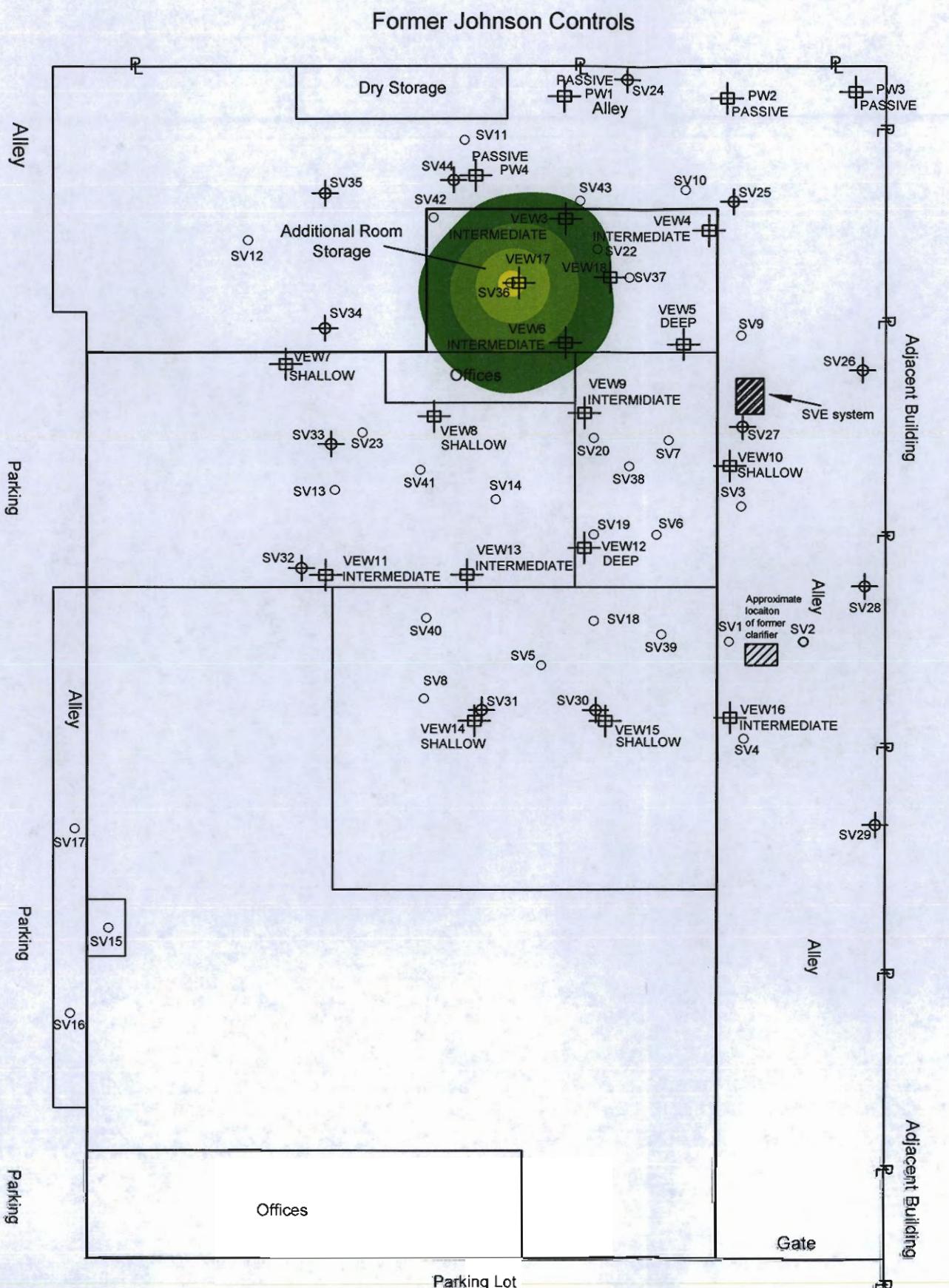
dress  
520 West 1st Street  
Austin, CA 97780

Telephone  
**(714) 730-5397**

(714) 730-6476



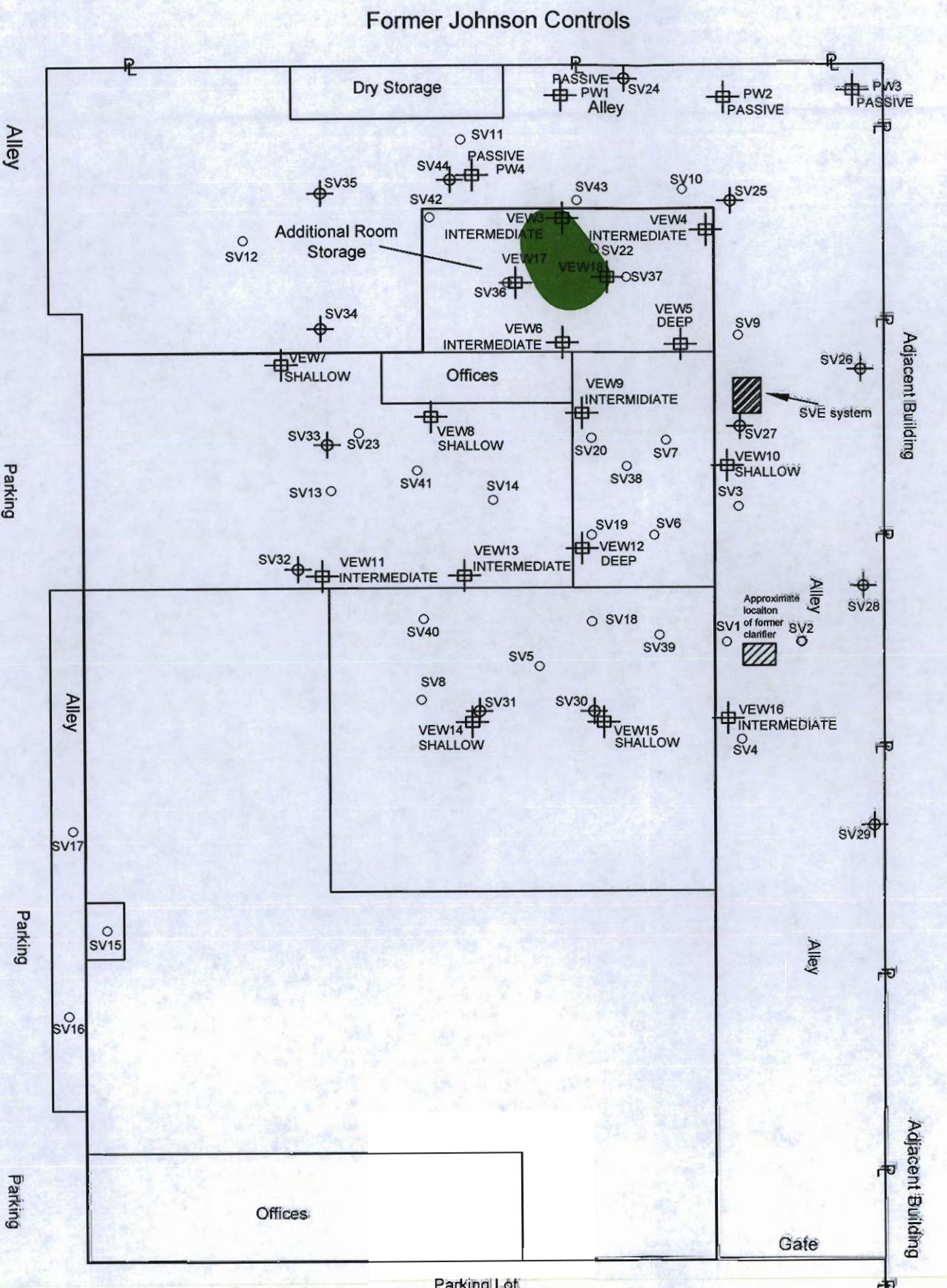
**THE  
REYNOLDS GROUP  
ENVIRONMENTAL SERVICES**



General Notes	
SHALLOW	- Vapor Extracitor Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
DEEP	- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
PASSIVE	- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
PASSIVE	- Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
Temporary Soil Vapor Probe Location	
Soil Gas Location	

Project Details	
Name	Universal Fullerton
Address	1551 E. Orangethorpe Ave. Fullerton, CA
Number	7115

Figure Details	
SITE PLAN WITH POST-REMEDIATION	PCE SOIL VAPOR CONCENTRATION
VEW11 INTERMEDIATE	CONTOURS AT SUB SLAB - 5 FT BGS
VEW12 DEEP	(NOVEMBER 2009)
VEW13 INTERMEDIATE	
VEW14 SHALLOW	
VEW15 SHALLOW	
VEW16 INTERMEDIATE	
VEW17 INTERMEDIATE	
VEW18 INTERMEDIATE	
VEW19 SHALLOW	
VEW20 INTERMEDIATE	
VEW21 SHALLOW	
VEW22 INTERMEDIATE	
VEW23 SHALLOW	
VEW24 SHALLOW	
VEW25 DEEP	
VEW26 DEEP	
VEW27 DEEP	
VEW28 DEEP	
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**General Notes**

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- PASSIVE - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

**Project Details**

Name	Universal Fullerton
Address	1551 E. Orangethorpe Ave. Fullerton, CA
Number	7115

**Figure Details**

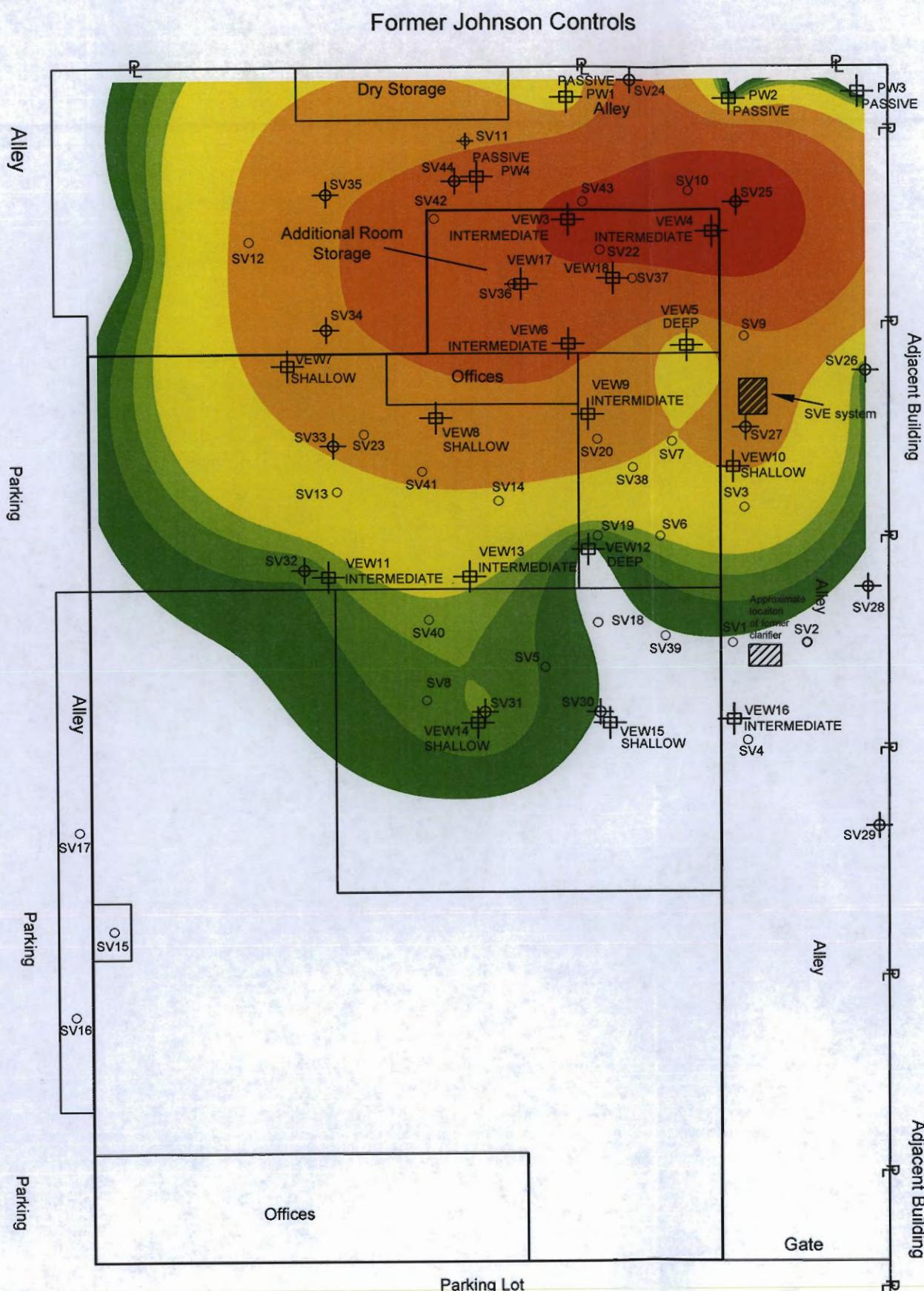
SITE PLAN WITH POST-REMEDIATION  
PCE SOIL VAPOR CONCENTRATION  
CONTOURS AT SUB-SLAB - 5 FT BAS  
(OCTOBER 2010)

Figure #	Figure 2D
Revise Date	December 2010
Scale	1" = 60'

**Company Information**

Address	520 West 1st Street Tustin, CA 92780
Telephone	(714) 730-5397
Fax	(714) 730-6476

**THE REYNOLDS GROUP ENVIRONMENTAL SERVICES**



#### General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

#### Project Details

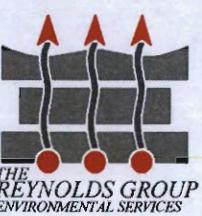
Name	Universal Fullerton
Address	1551 E. Orangethorpe Ave. Fullerton, CA
Number	7115

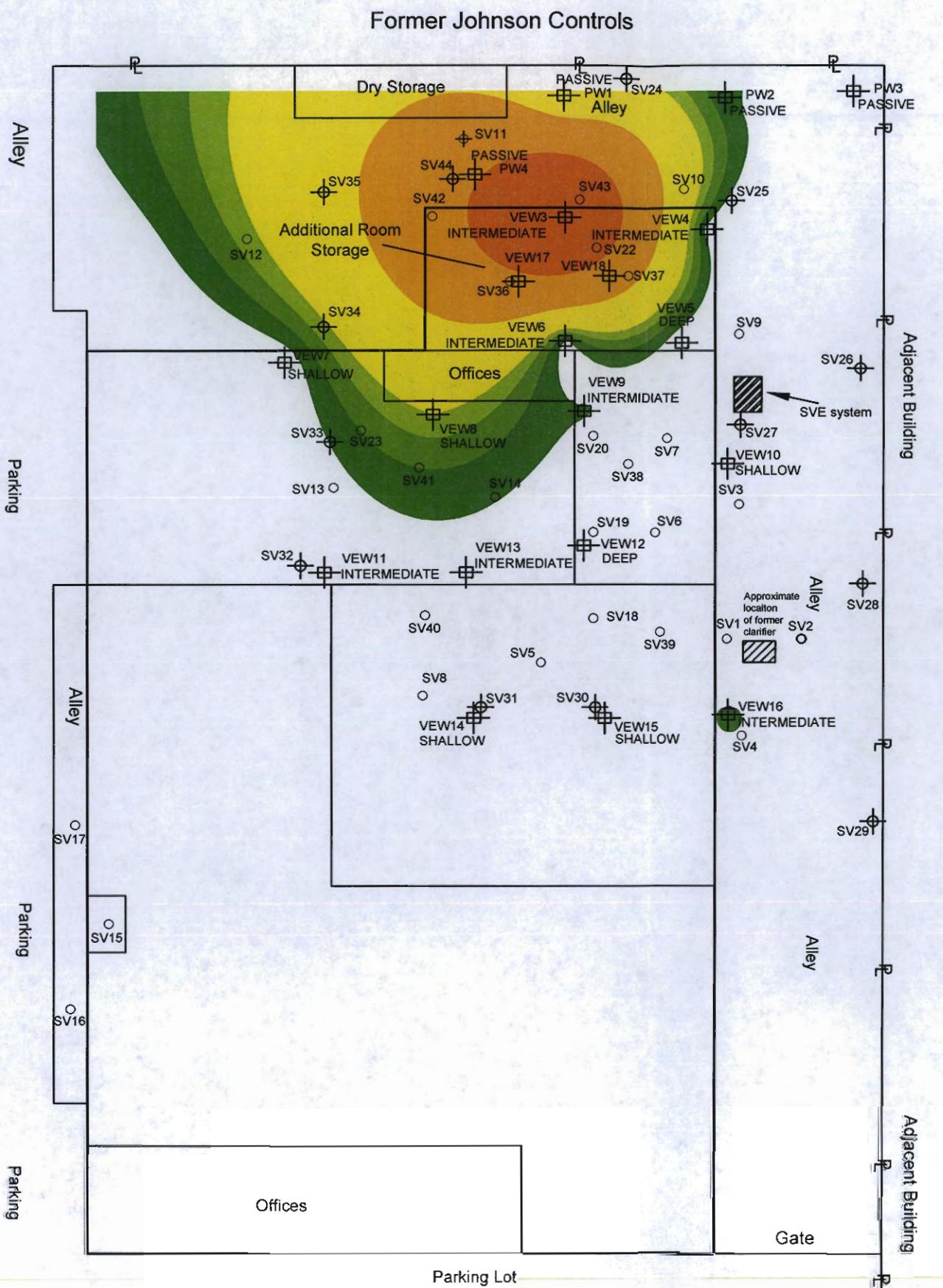
#### Figure Details

SITE PLAN WITH PRE-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS	
Figure #	Figure 3A
Revise Date	March 2009
Scale	0' 60' Approximate Scale 1"=60'

#### Company Information

Address	520 West 1st Street Tustin, CA 92780
Telephone	(714) 730-5397
Fax	(714) 730-6476





#### General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- MULTI-DEPTH - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

#### Project Details

Name	Universal Fullerton
Address	1551 E. Orangethorpe Ave. Fullerton, CA
Number	7115

#### Figure Details

SITE PLAN WITH POST-REMEDIATION  
PCE SOIL VAPOR CONCENTRATION  
CONTOURS AT 15 FT BGS  
(MARCH 2009)

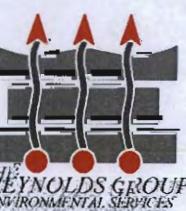
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*Figure 3B*

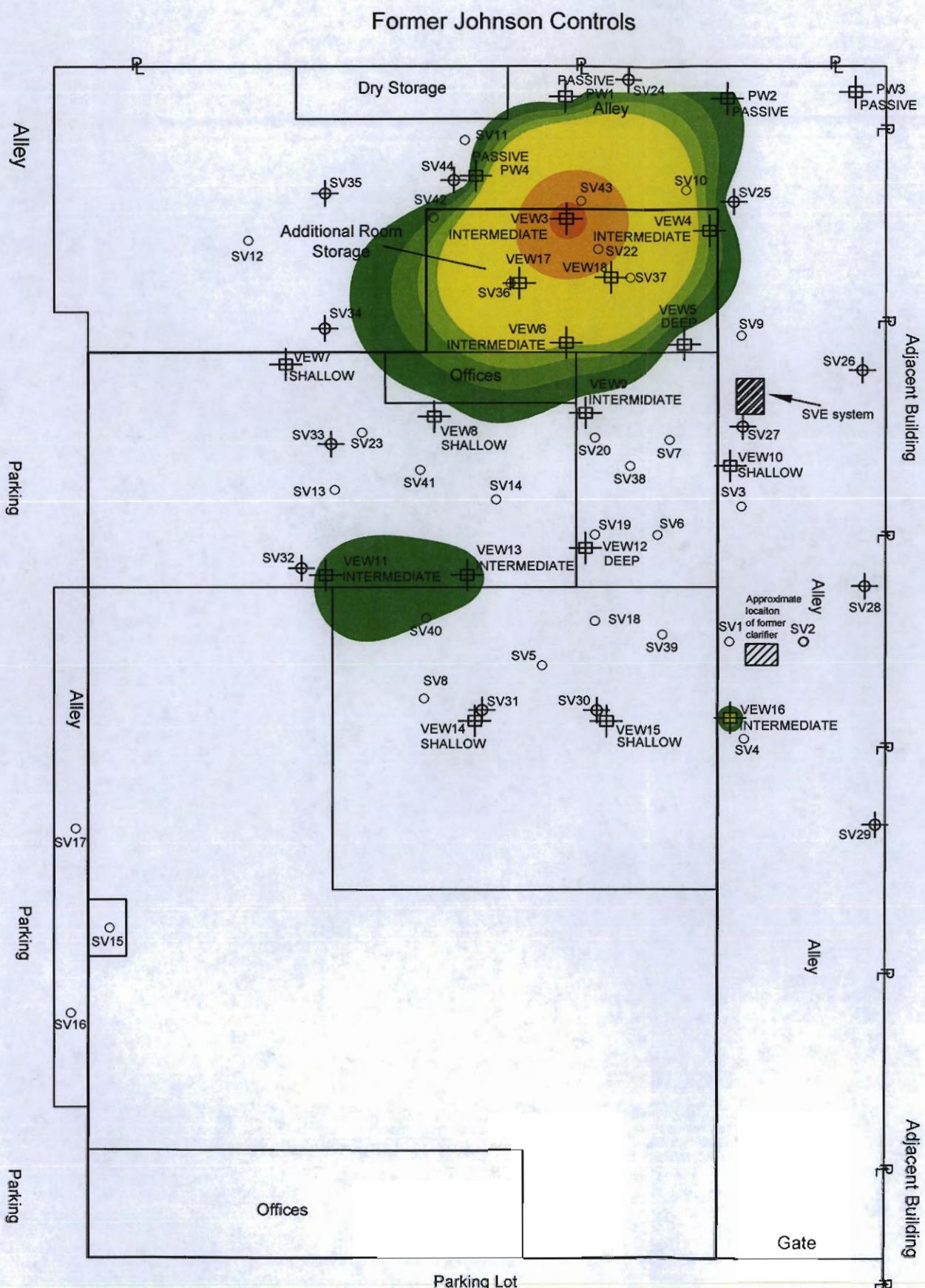
Revise Date  
March 2009

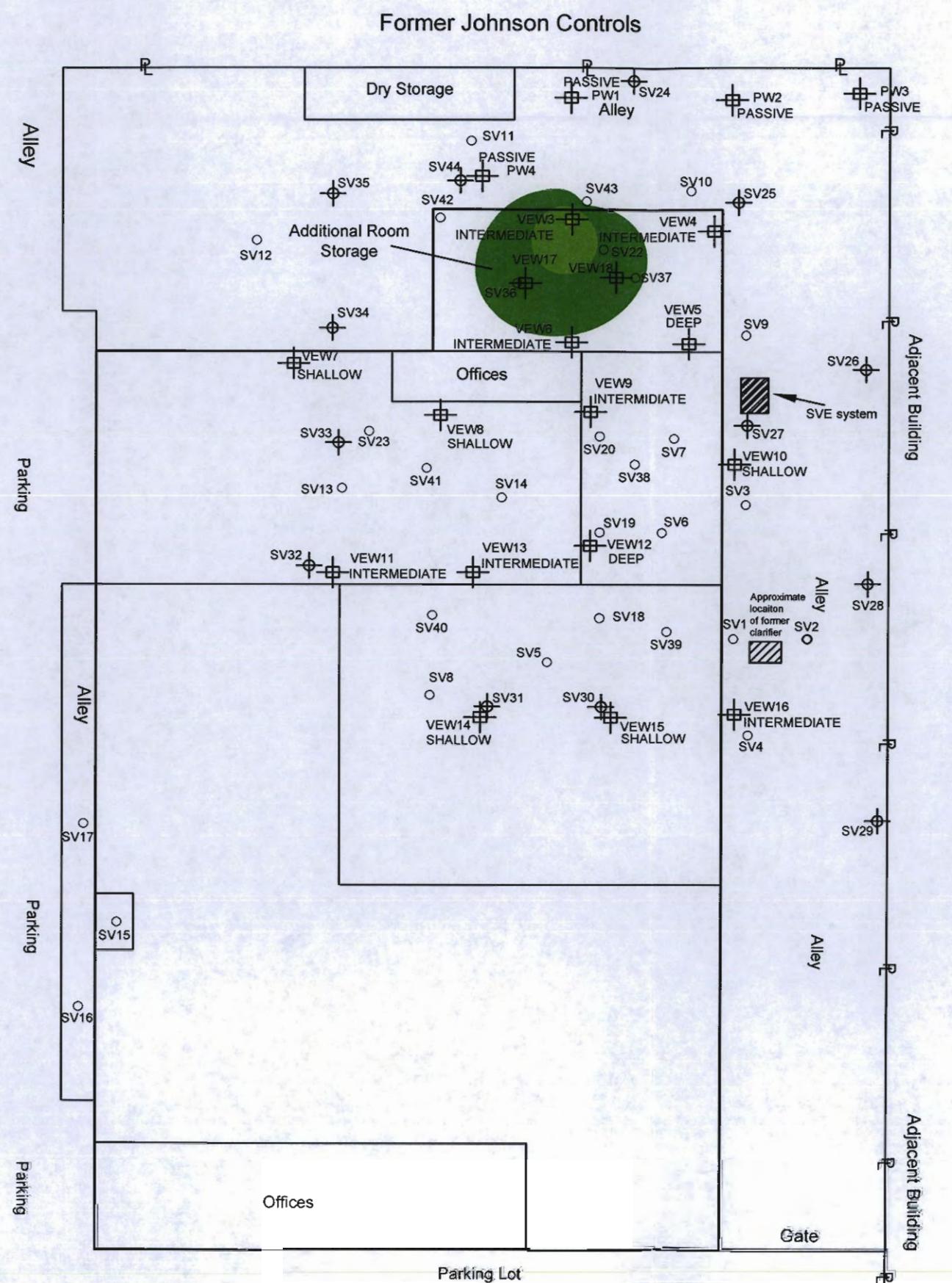
Scale  
1" = 60'

#### Company Information

Address	520 West 1st Street Tustin, CA 92780
Telephone	(714) 730-5397
Fax	(714) 730-6476







**General Notes**

- Vapor Extraciton Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location ( Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- Vapor Extraction Well Location ( Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
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**Project Details**

Name	Universal Fullerton
Address	1551 E. Orangethorpe Ave. Fullerton, CA
Number	7115

**Figure Details**

SITE PLAN WITH POST-REMEDIATION  
PCE SOIL VAPOR CONCENTRATION  
CONTOURS AT 15 FT BGS  
(OCTOBER 2010)

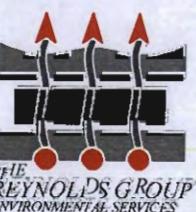
Figure #

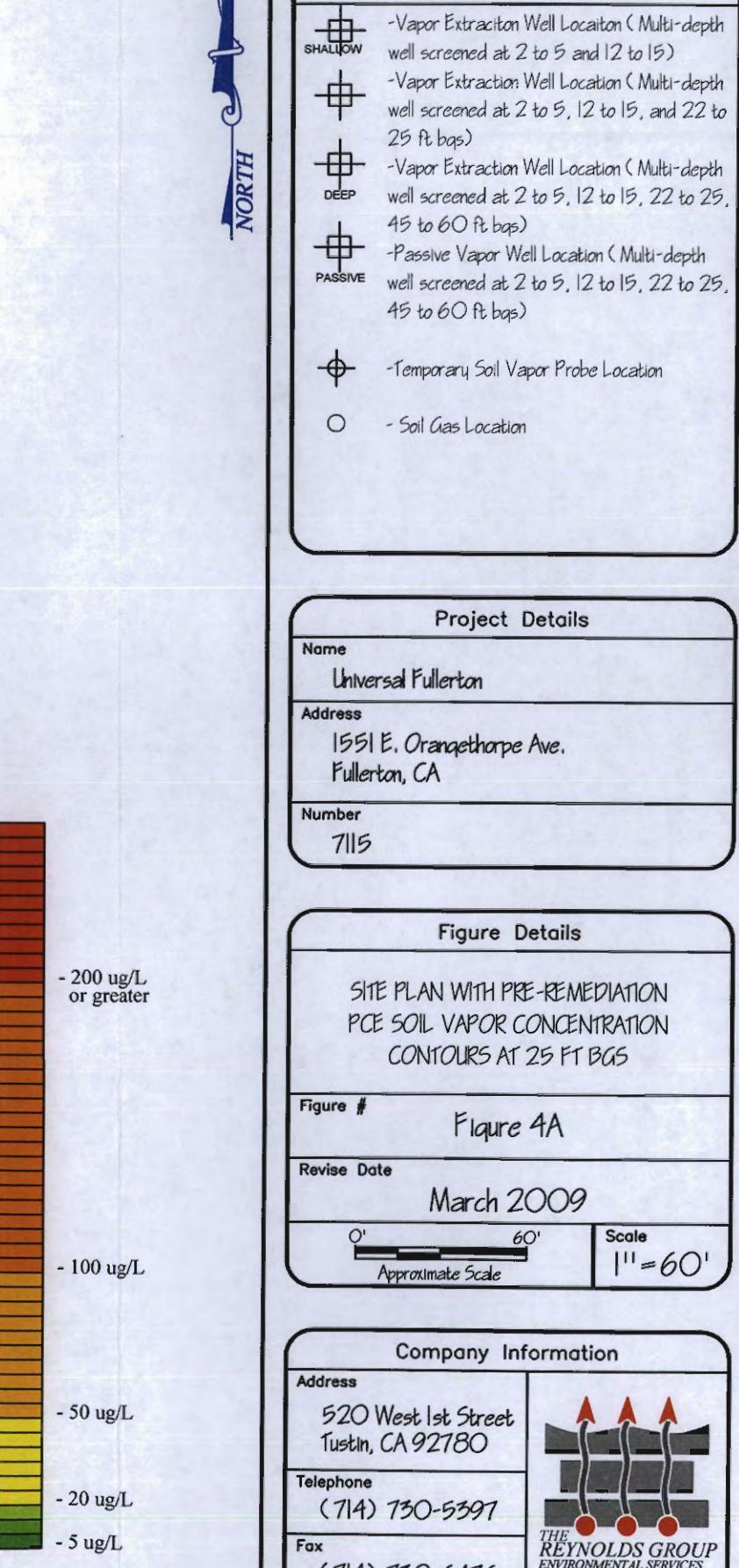
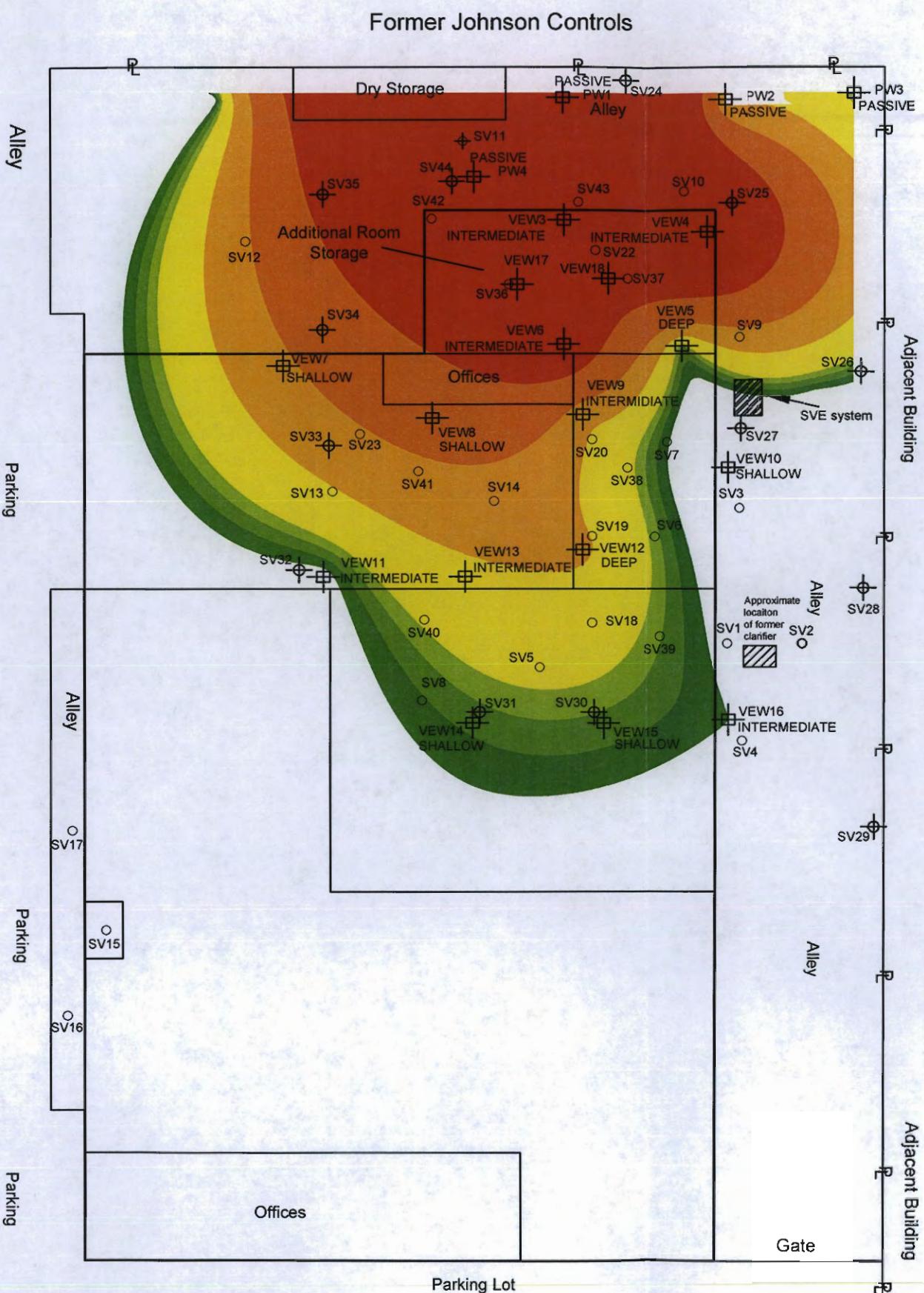
Figure 3D

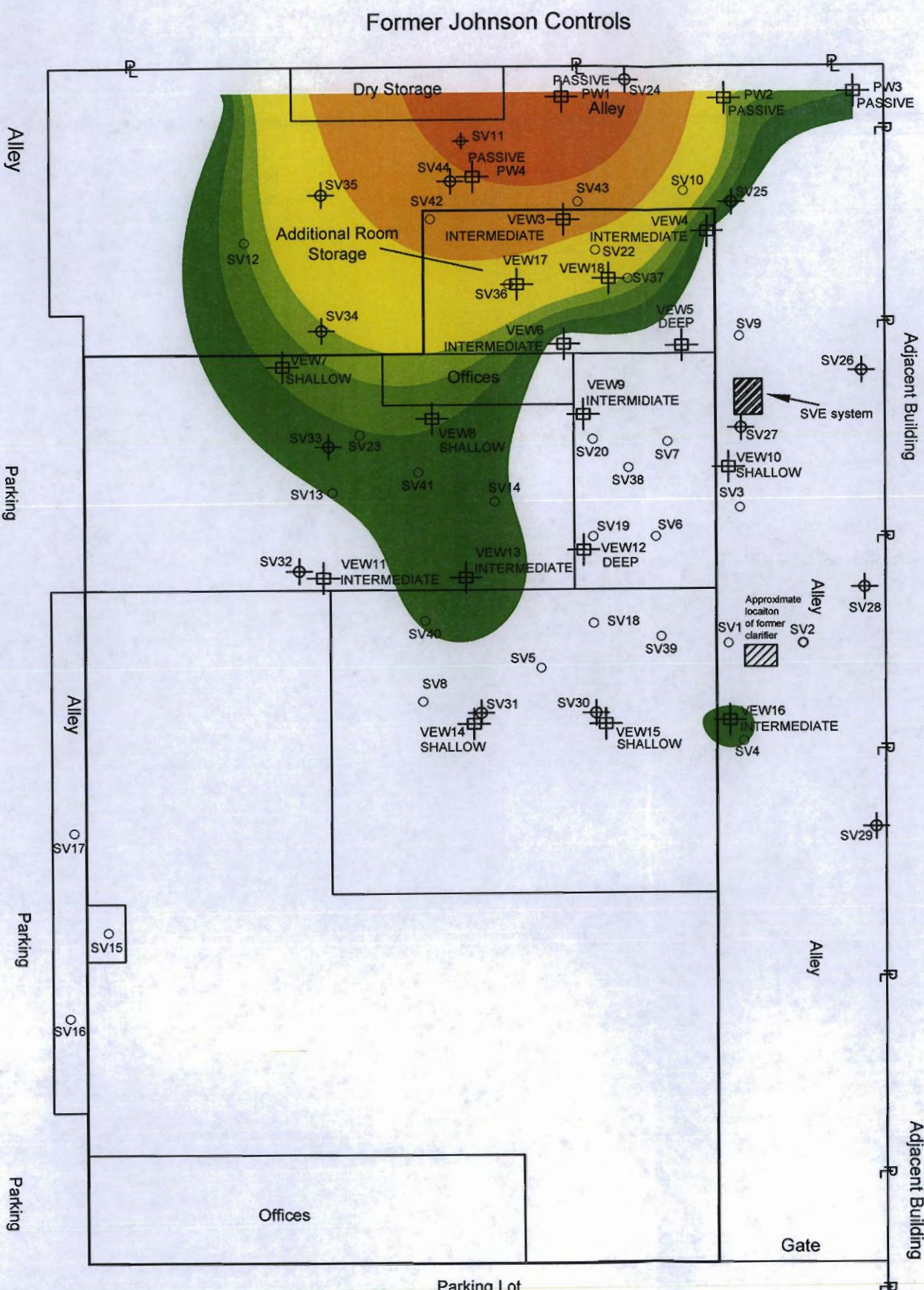
Revise Date	December 2010
Scale	1"=60'

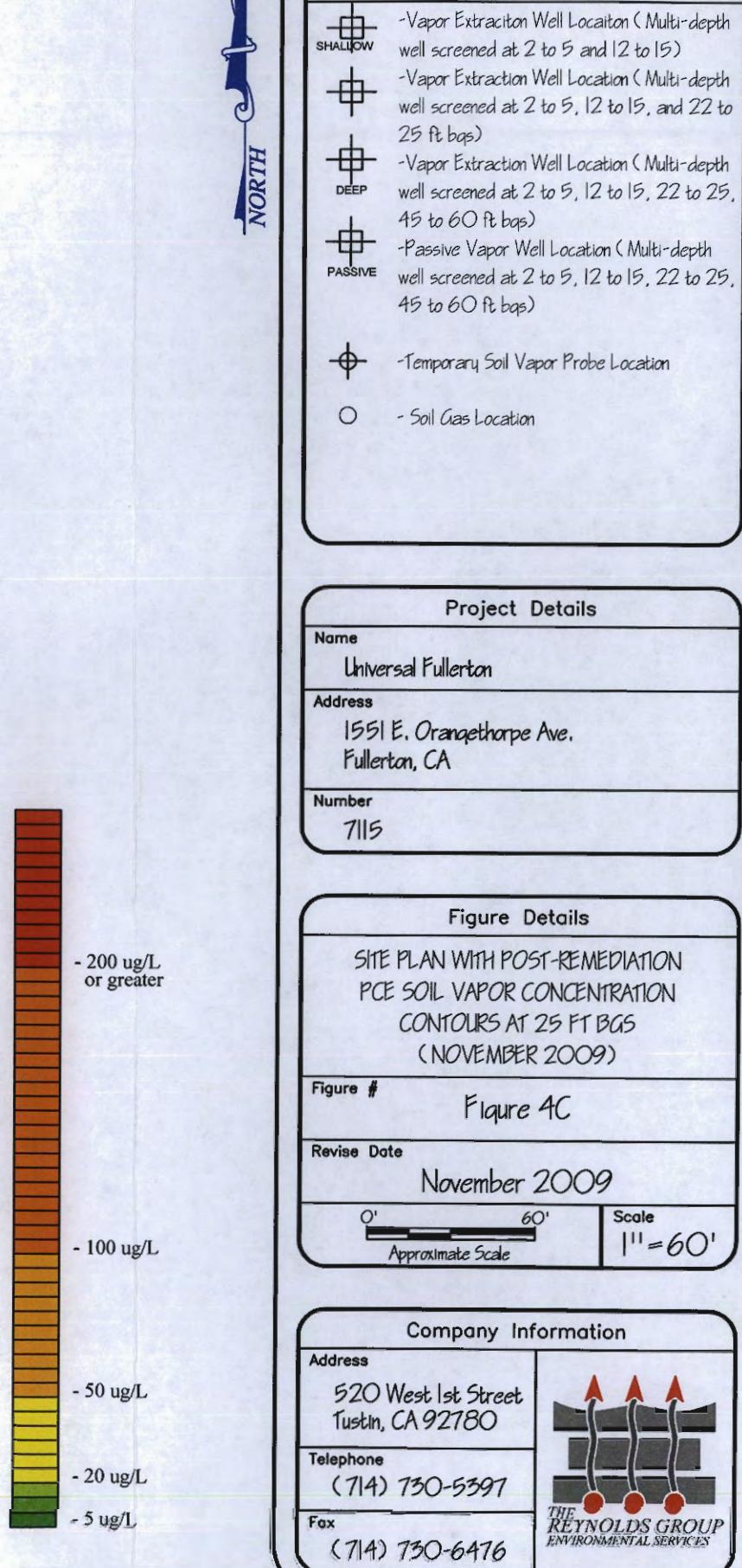
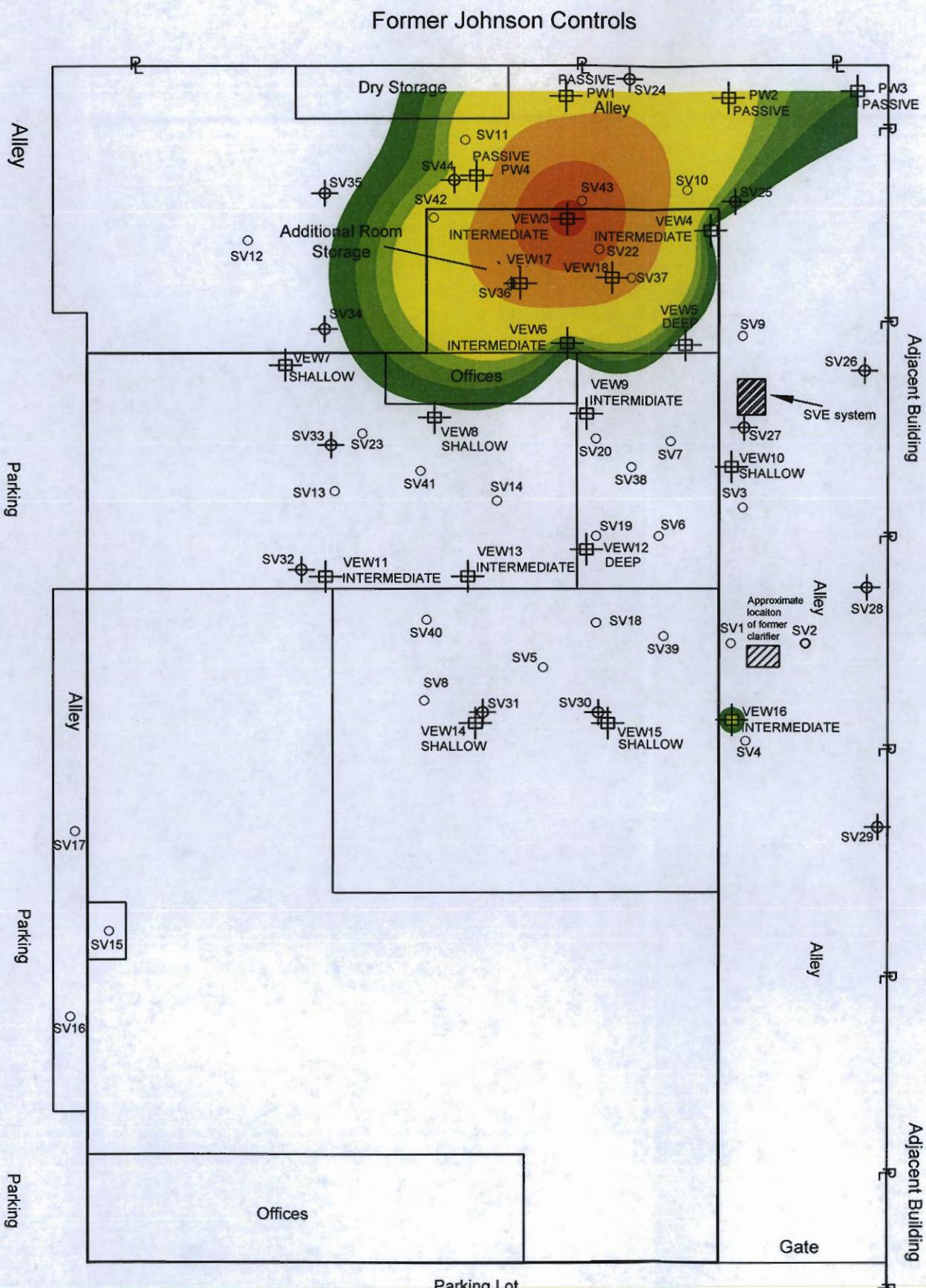
**Company Information**

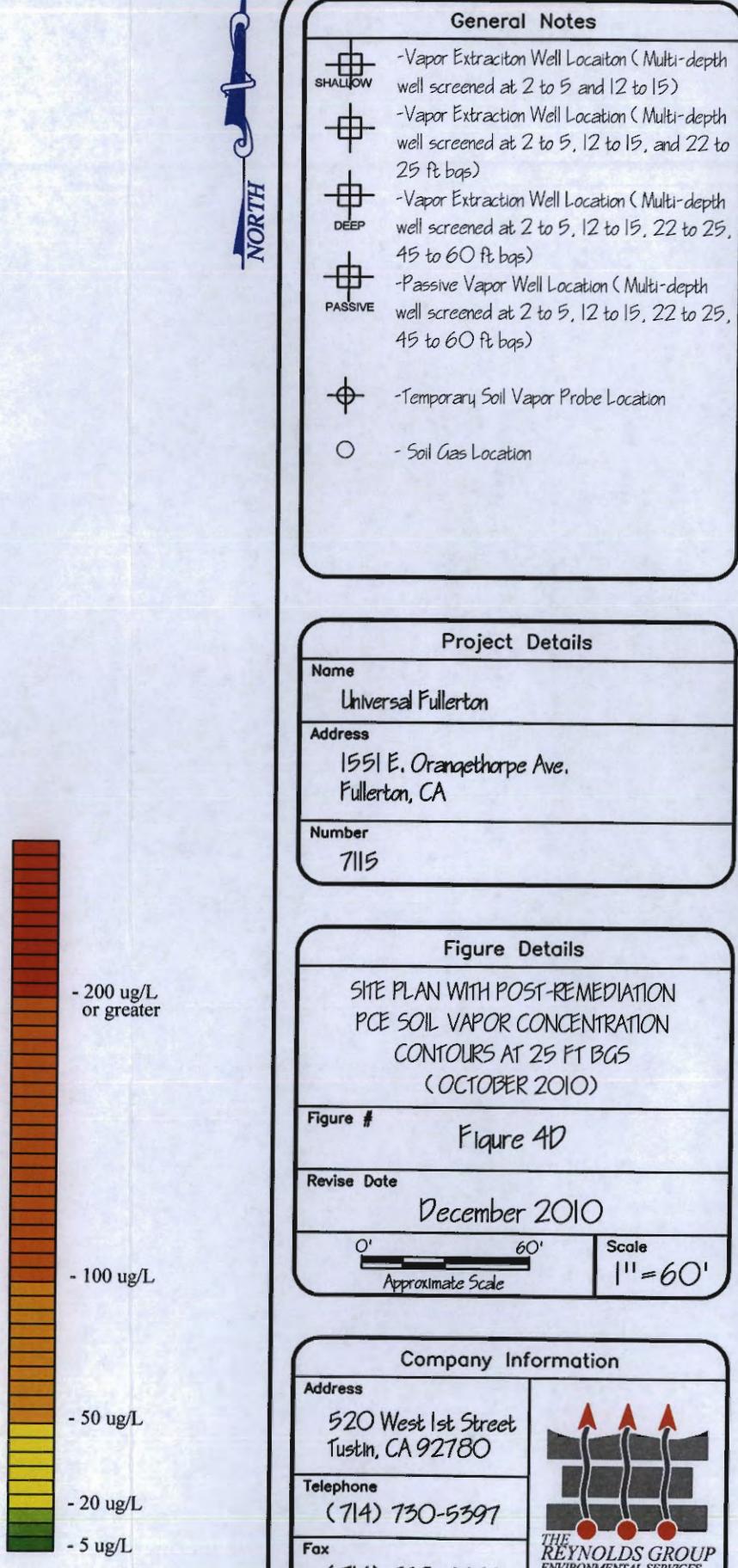
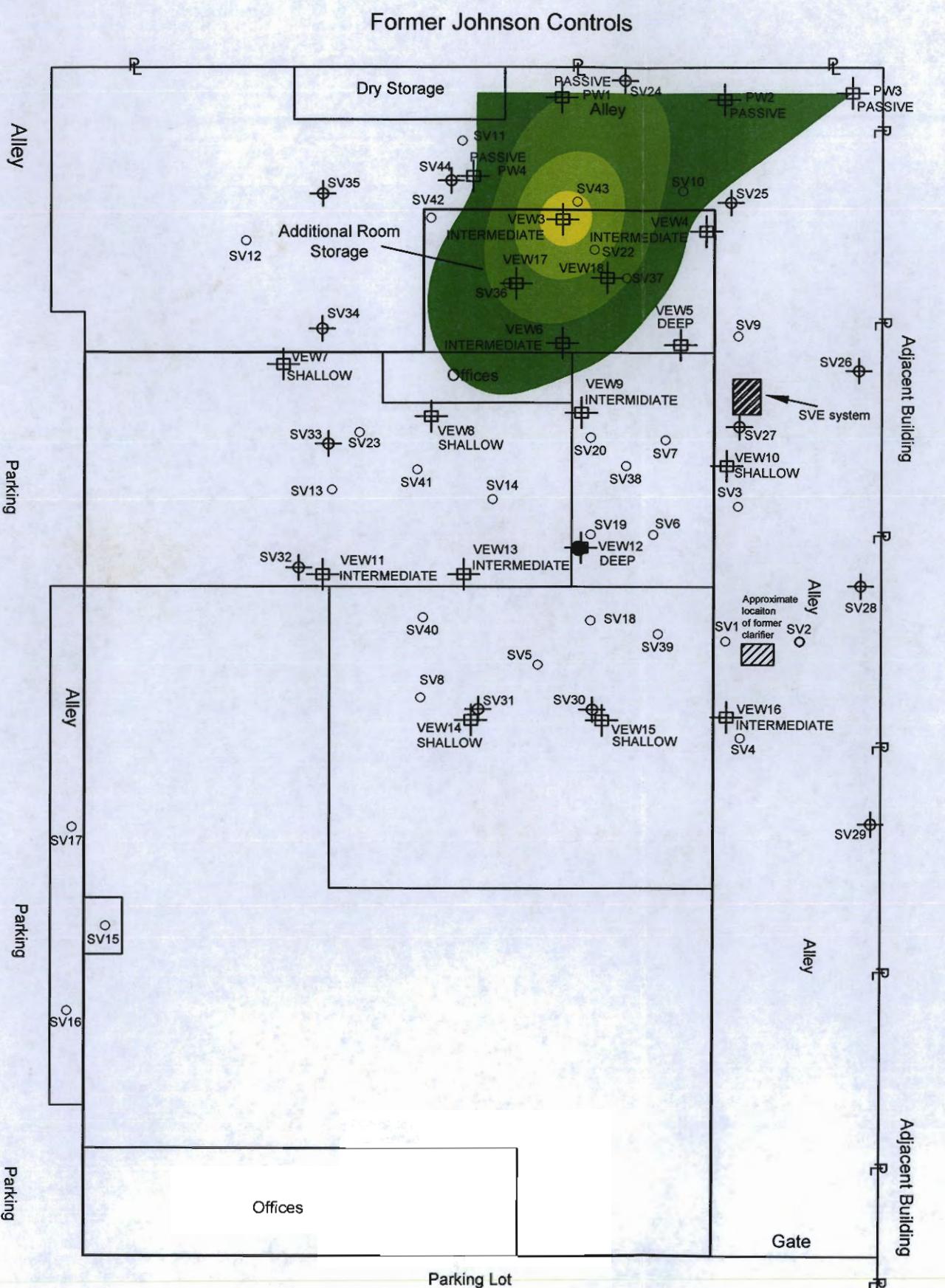
Address	520 West 1st Street Tustin, CA 92780
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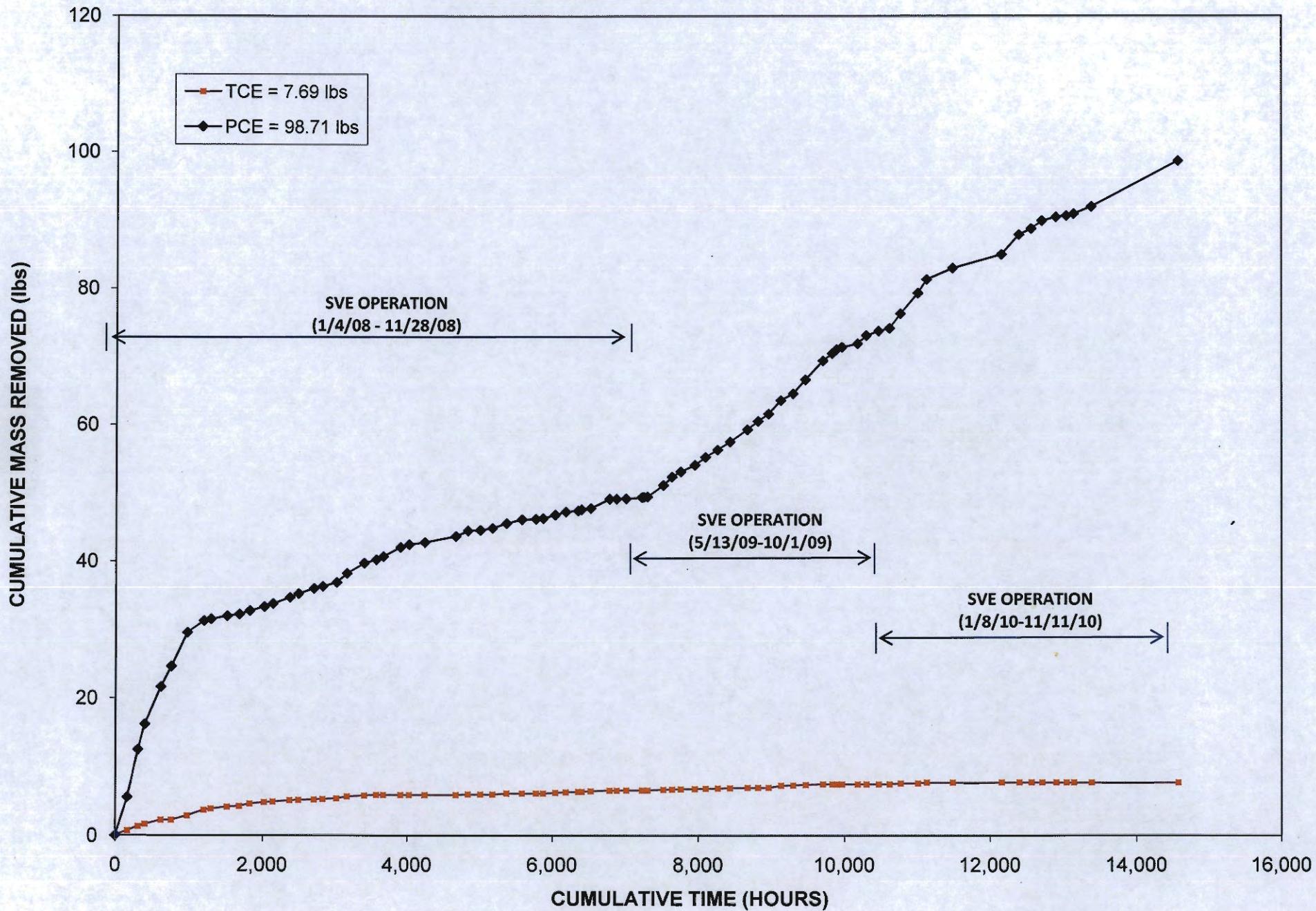








**Figure 5 - Cumulative PCE & TCE Removed over Time**



**FIGURE 6 - Inlet PCE & TCE Vapor Concentrations ( $\mu\text{g}/\text{L}$ ) Over Time**

